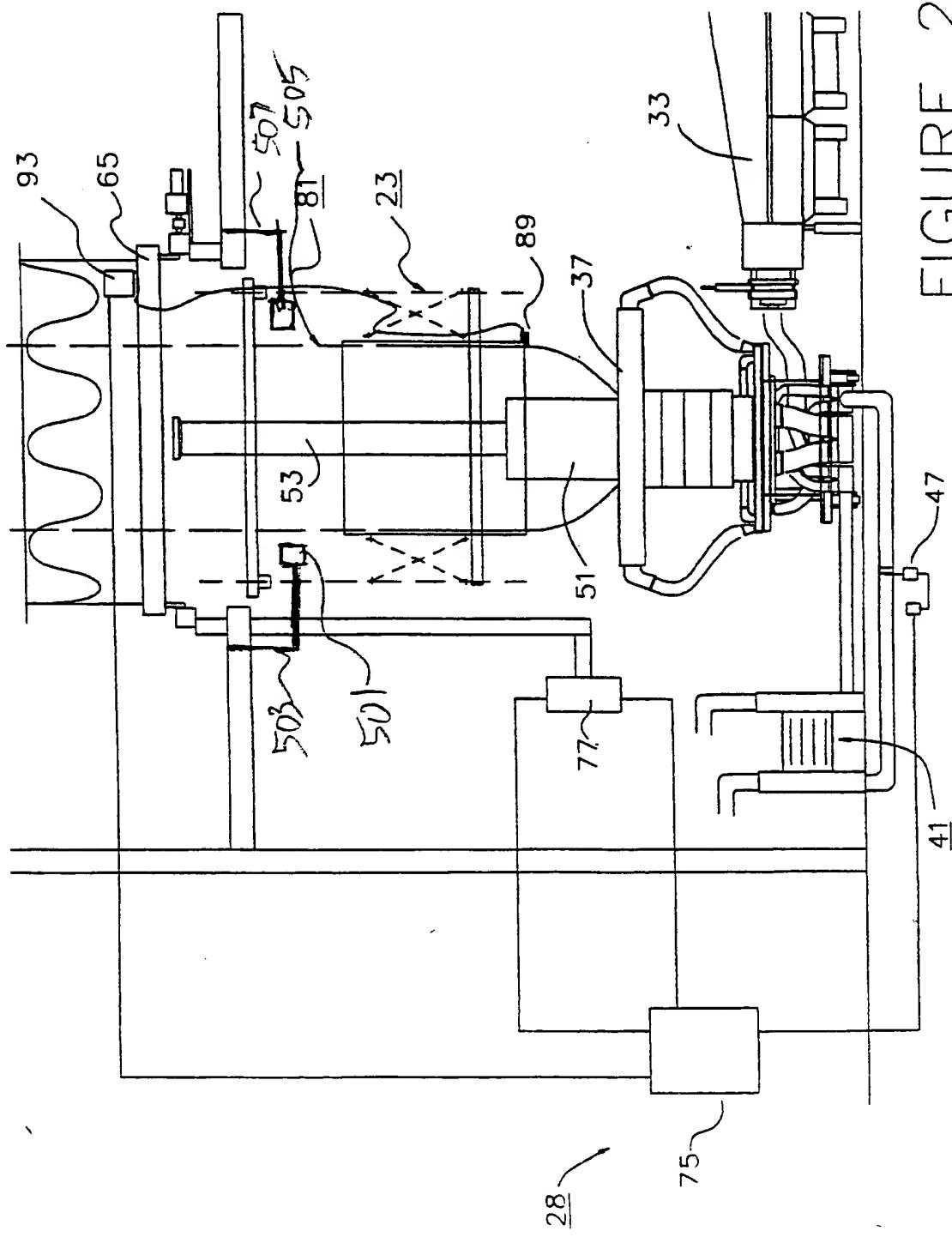


FIGURE 1

FIGURE 2



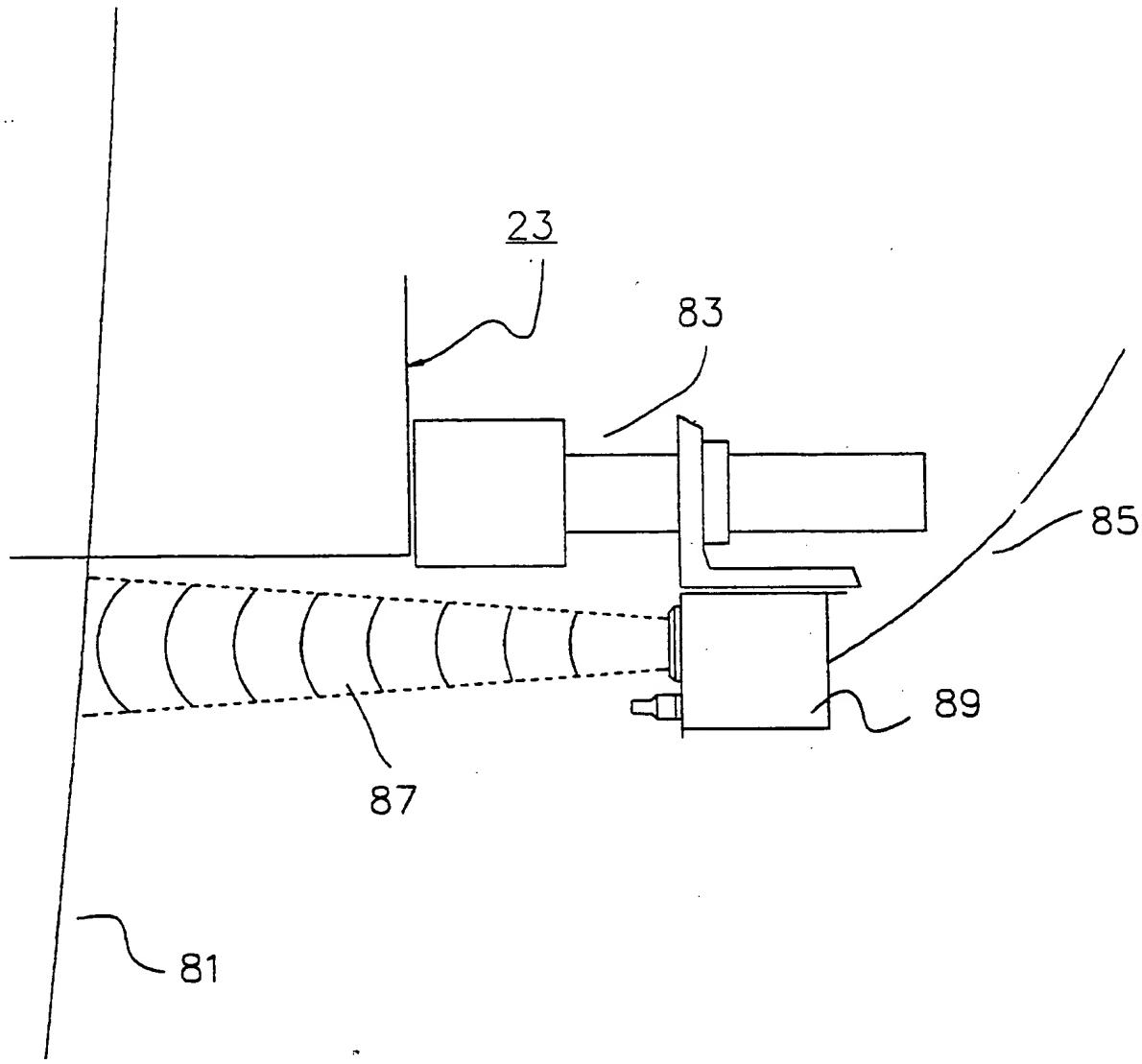


FIGURE 3

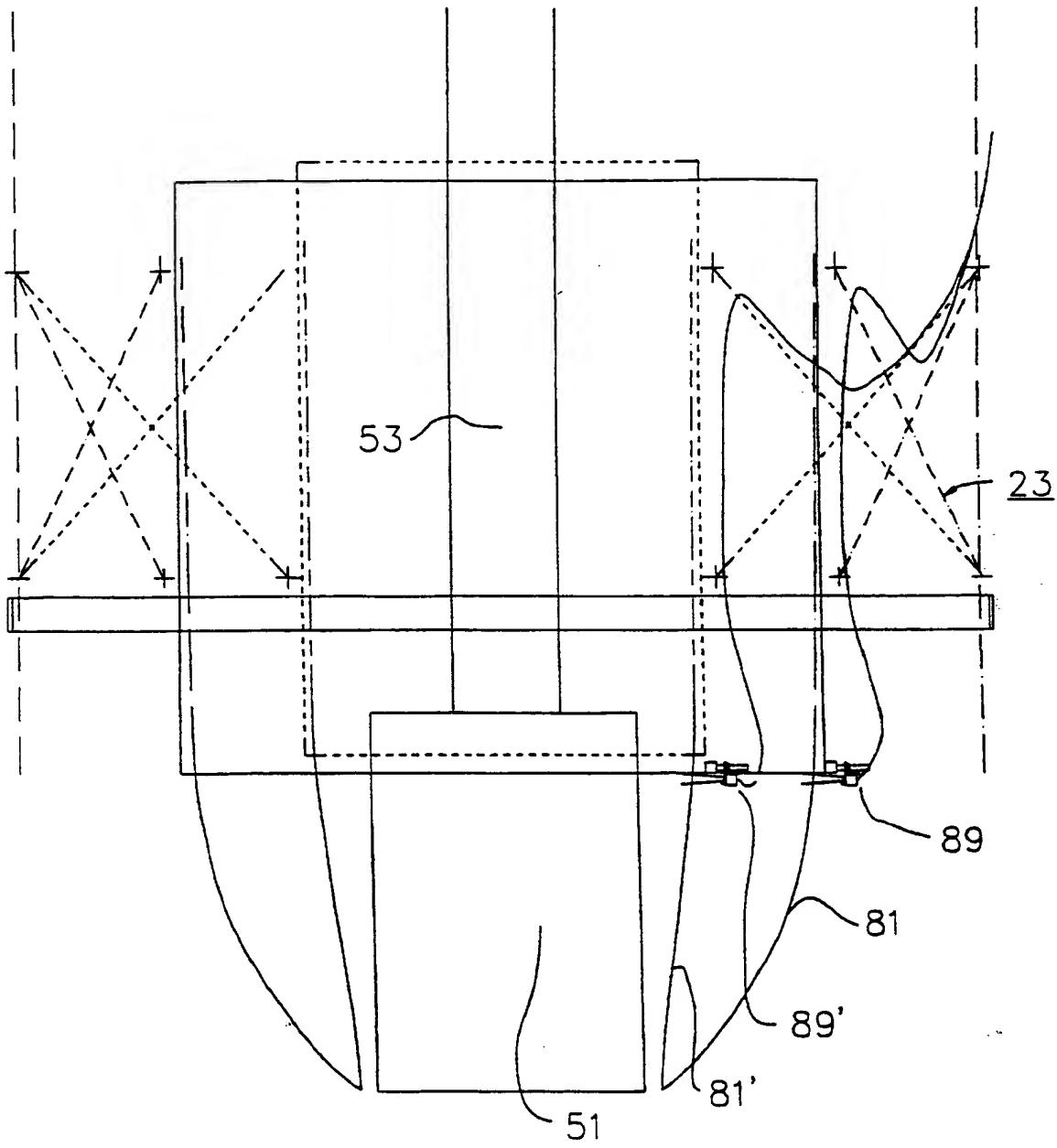
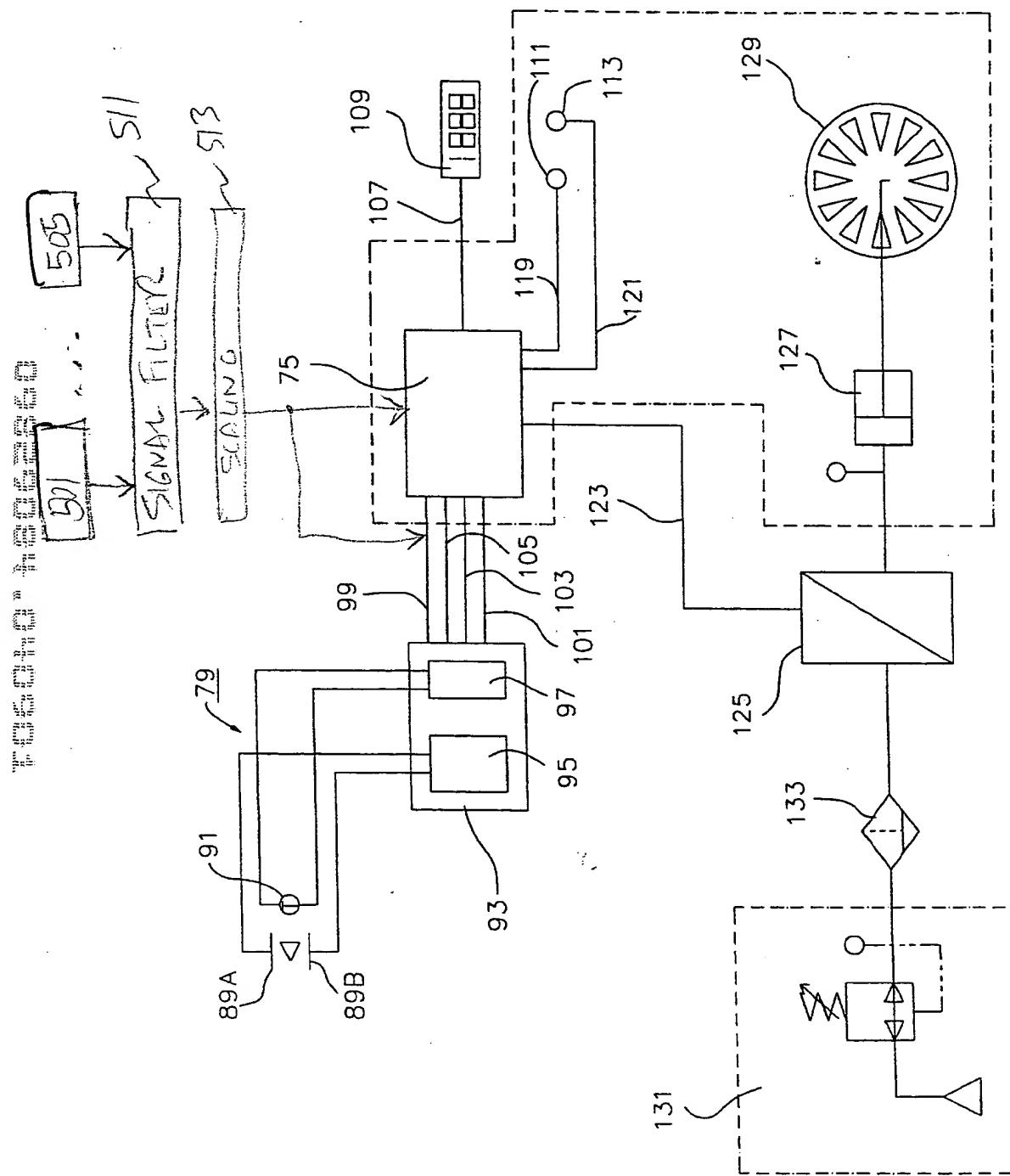
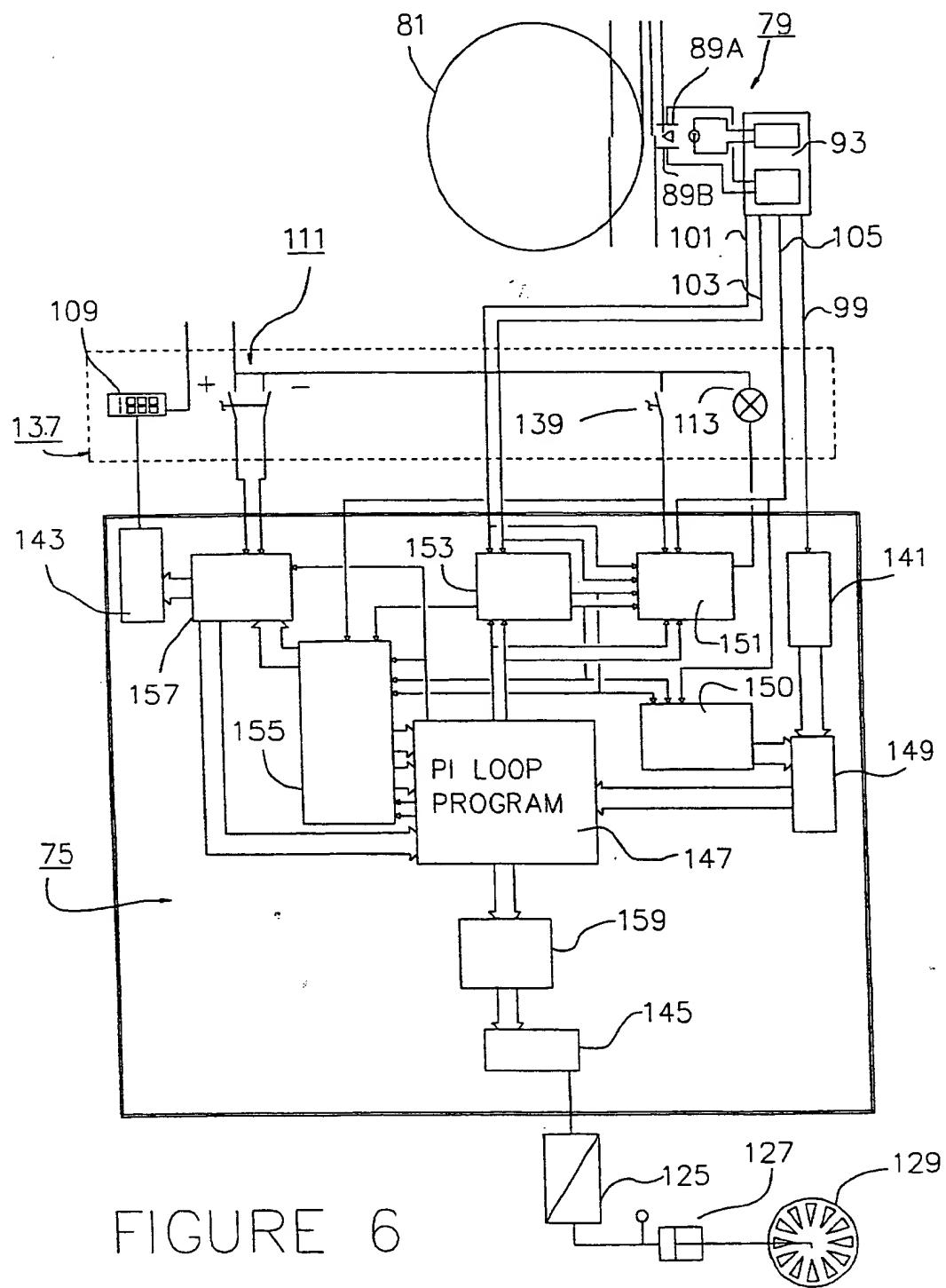


FIGURE 4

FIGURE 5





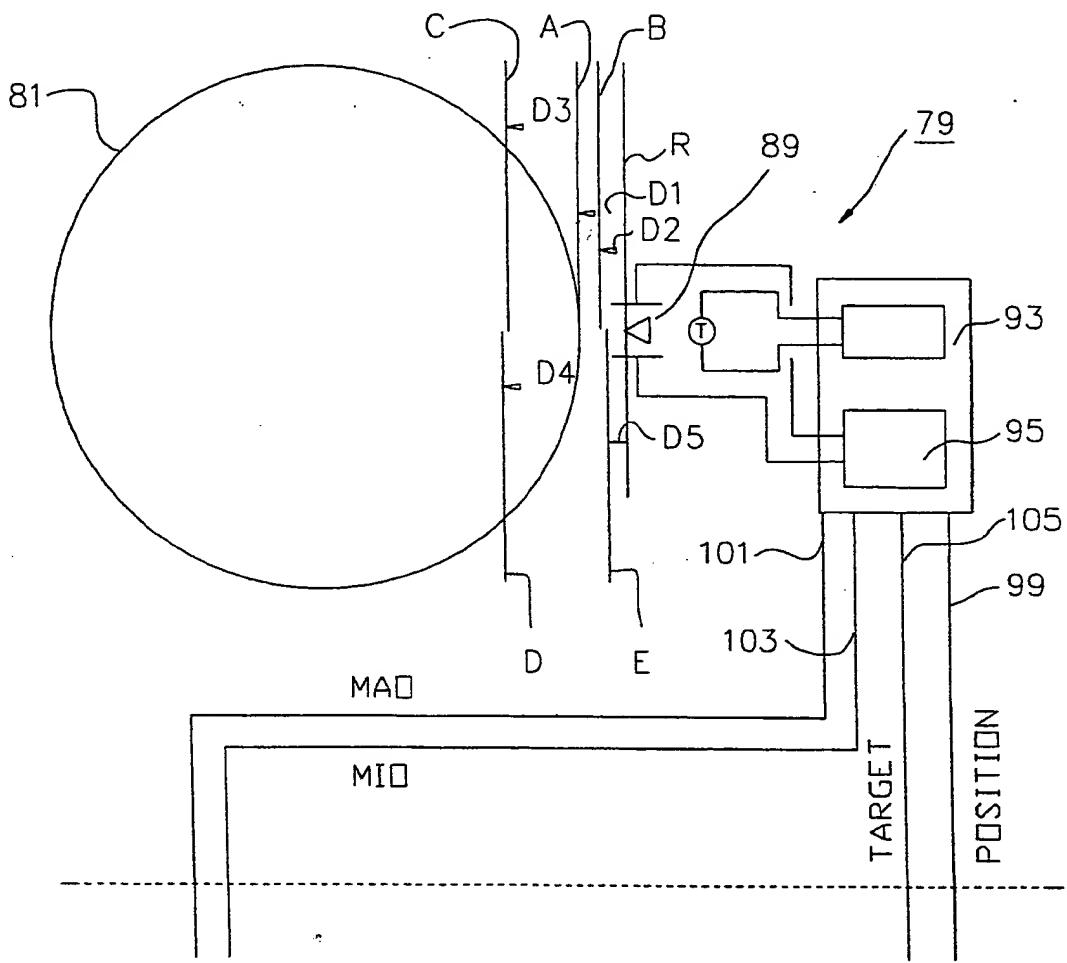


FIGURE 7A

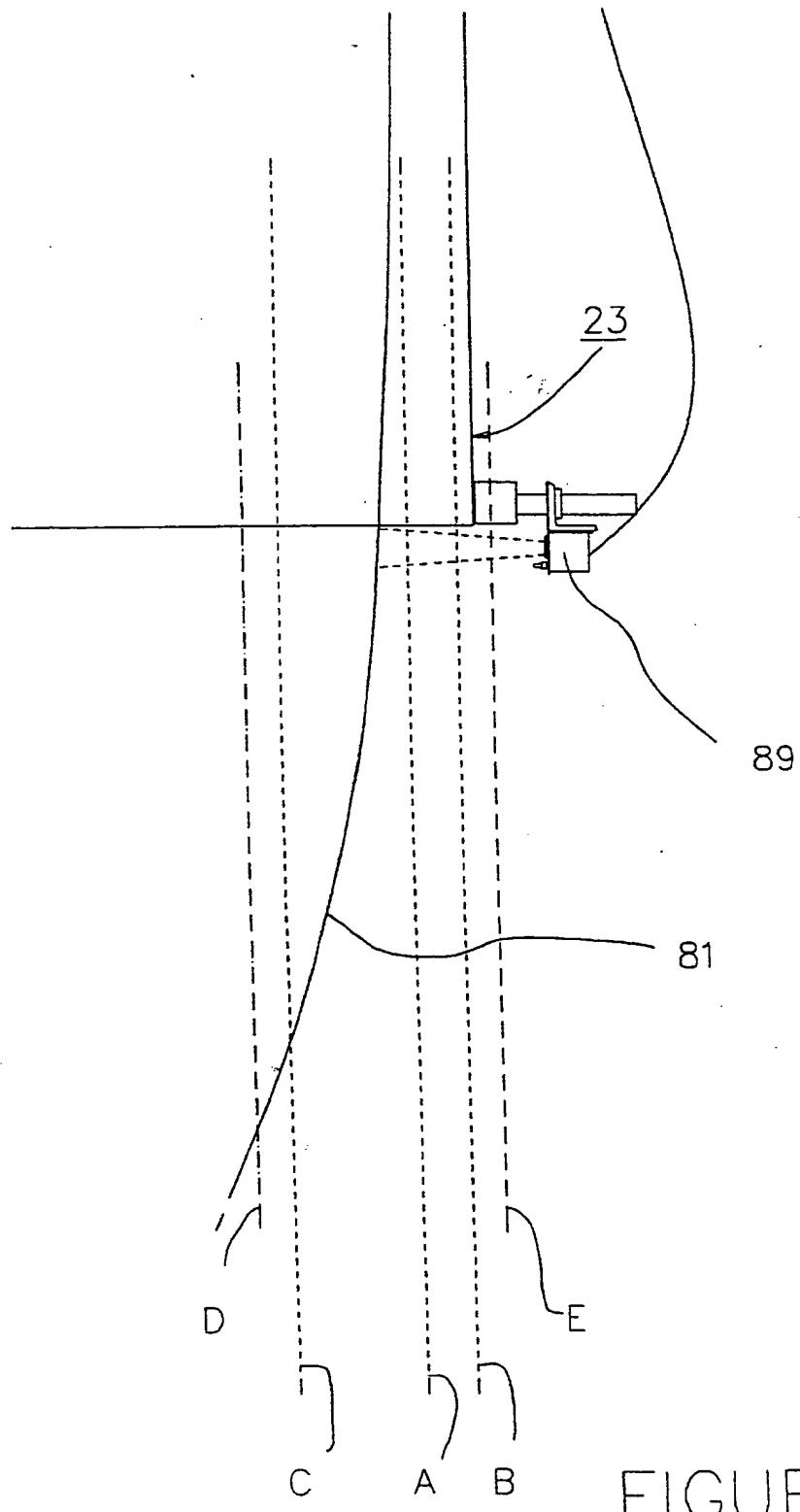


FIGURE 7B

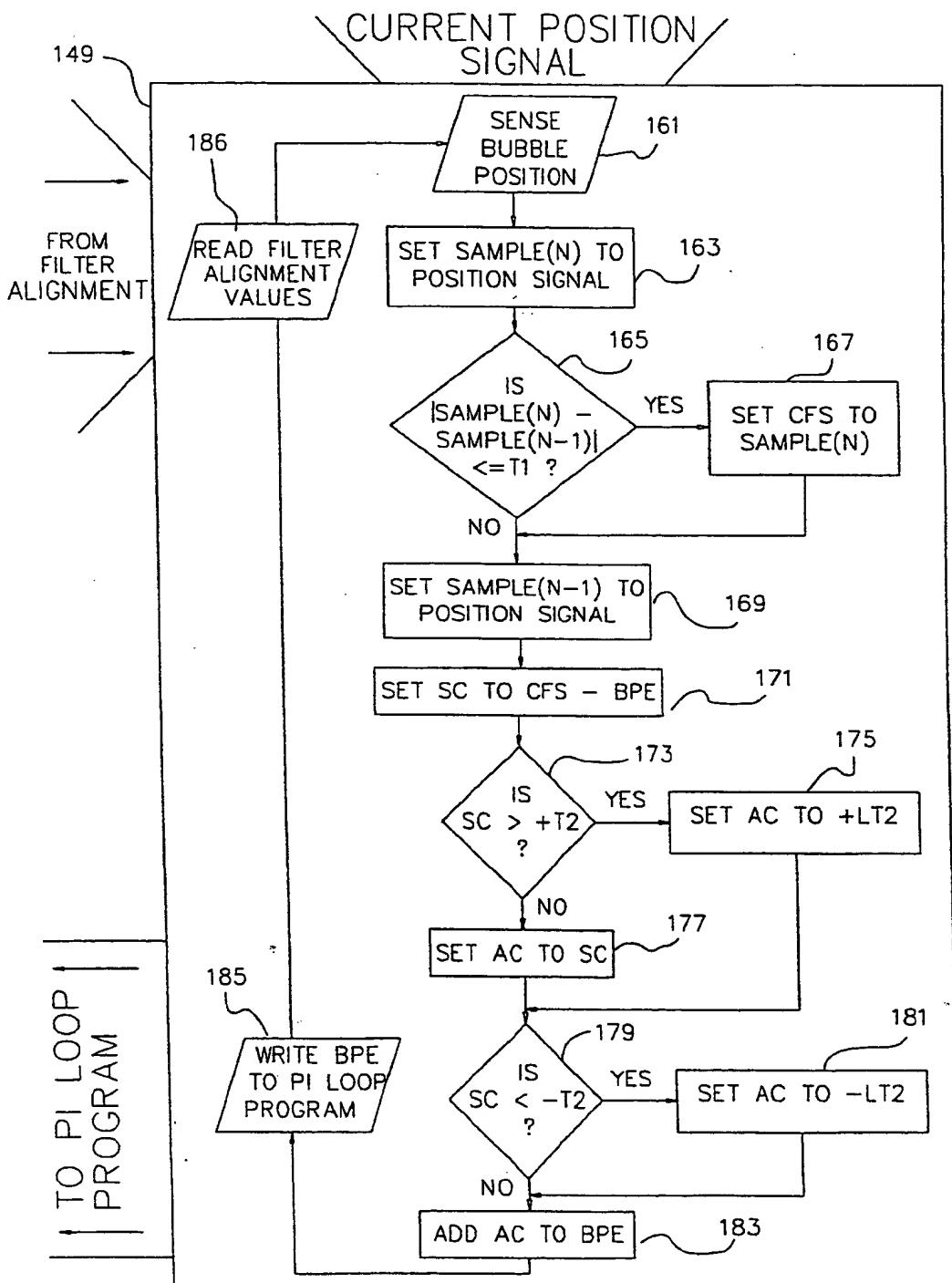


FIGURE 8A

IS-IBC1 FILTER SIMULATION
INPUT = RAMPING LINE WITH RANDOM NOISE

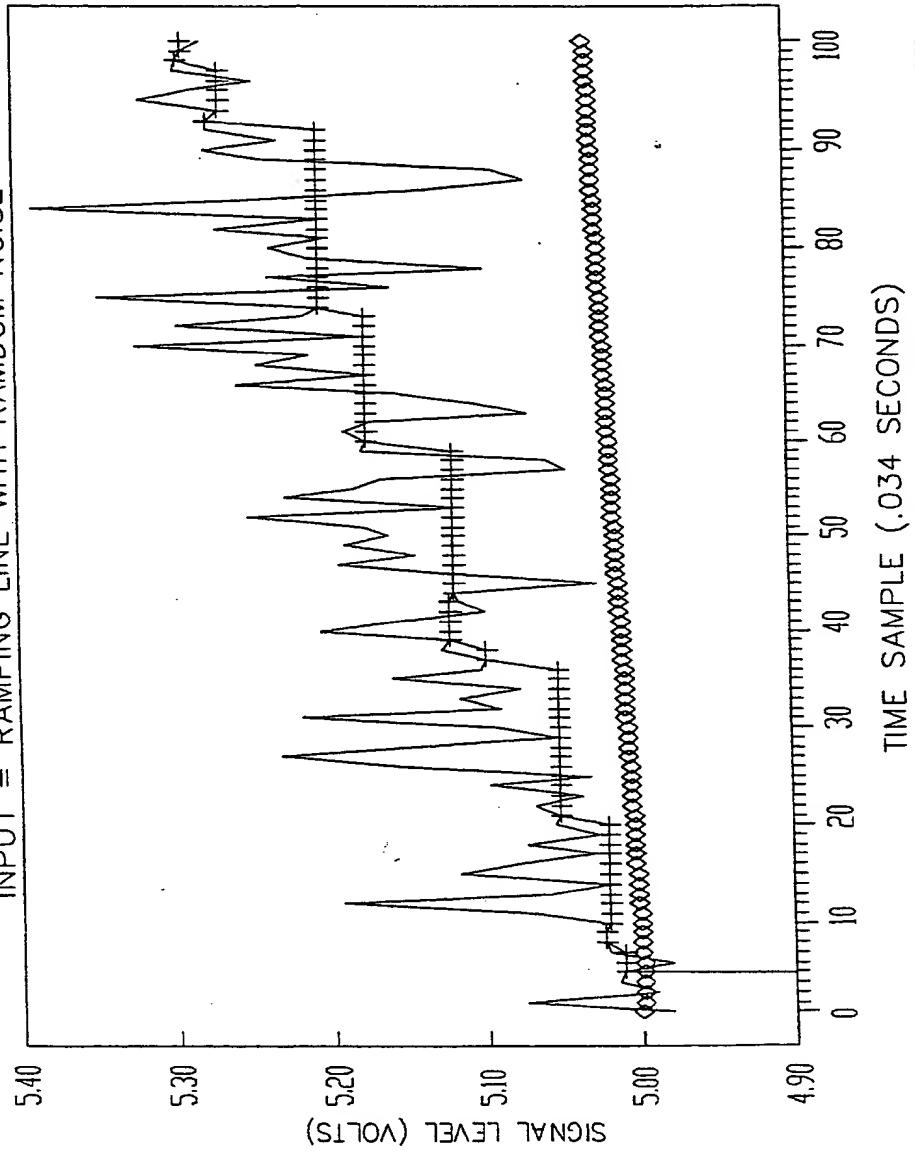


FIGURE 8B

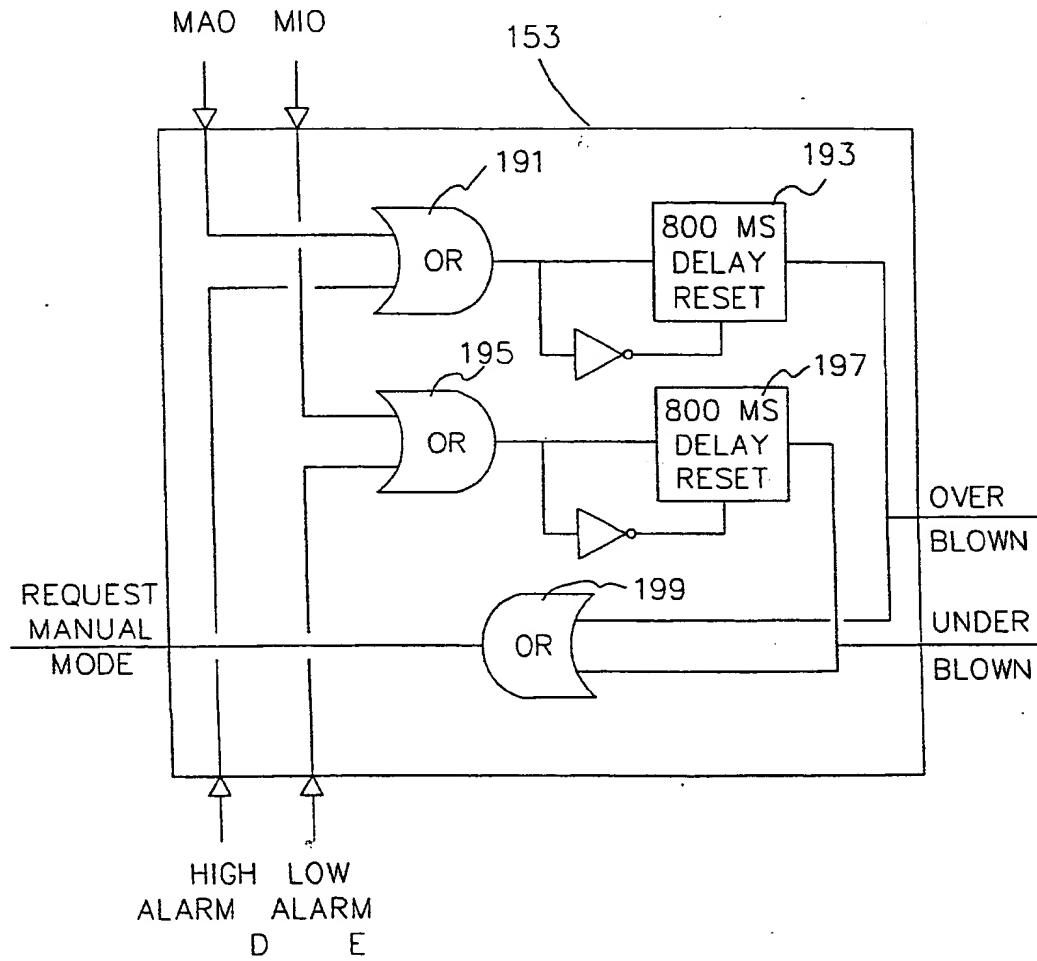


FIGURE 9

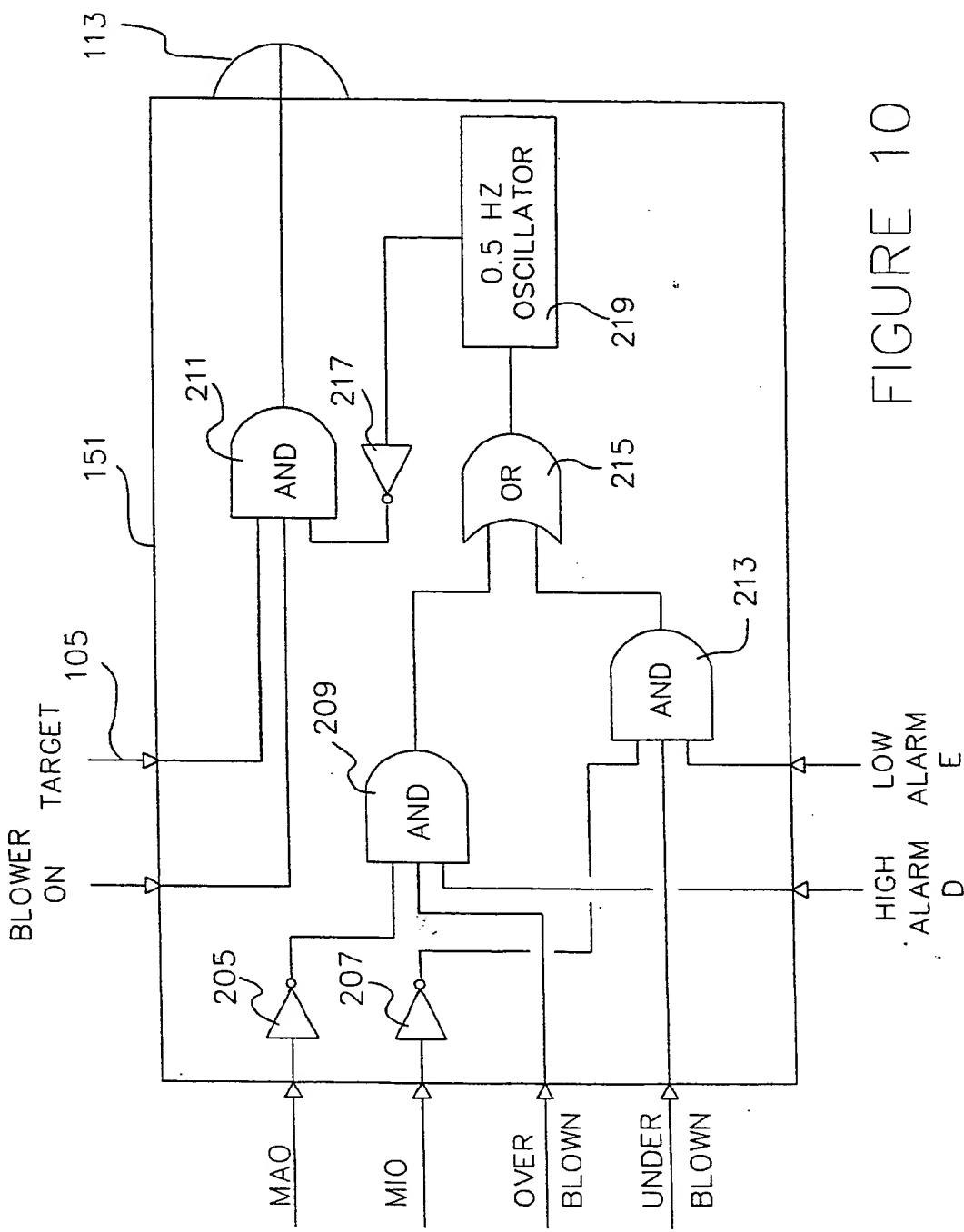
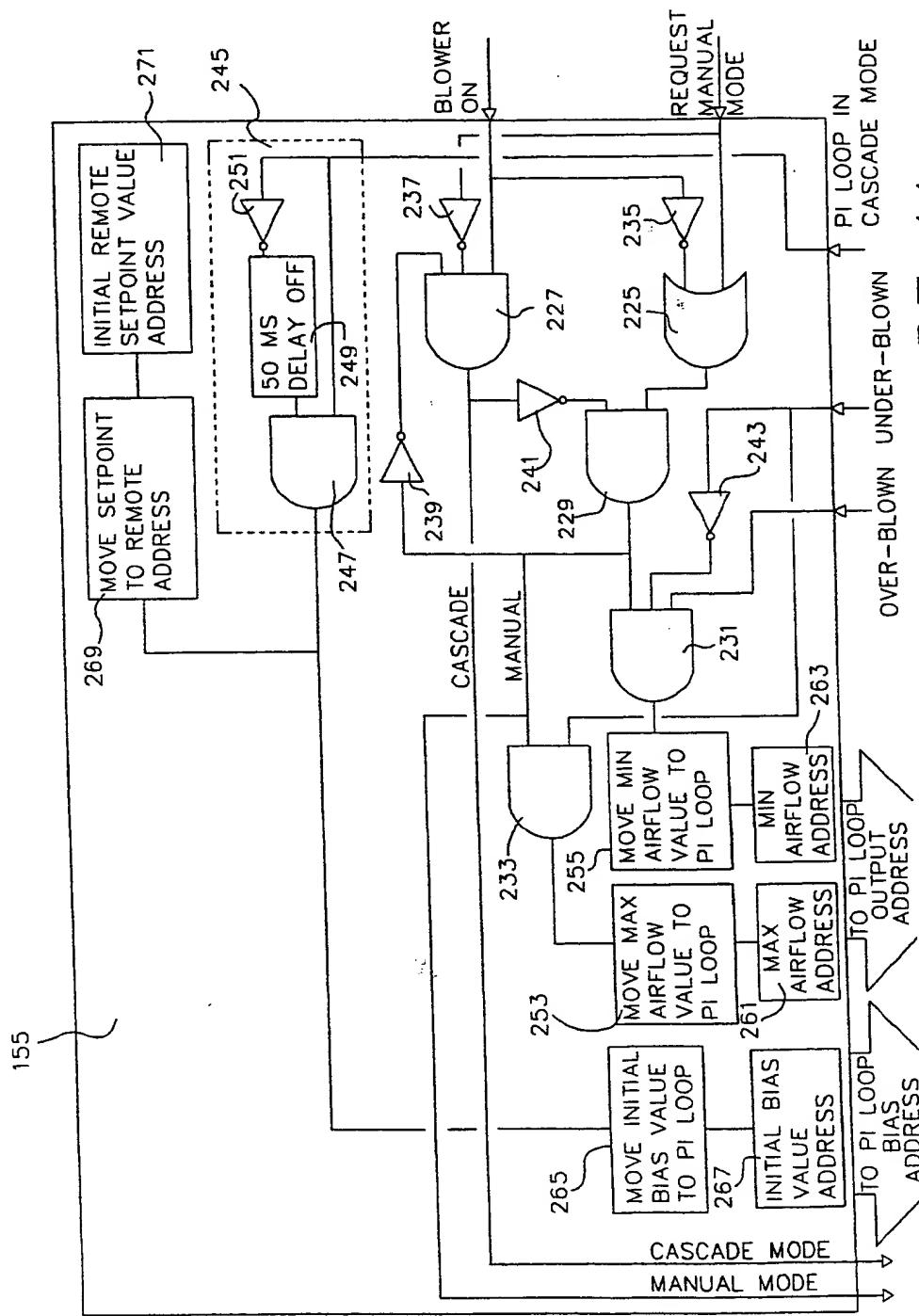


FIGURE 10

FIGURE 11



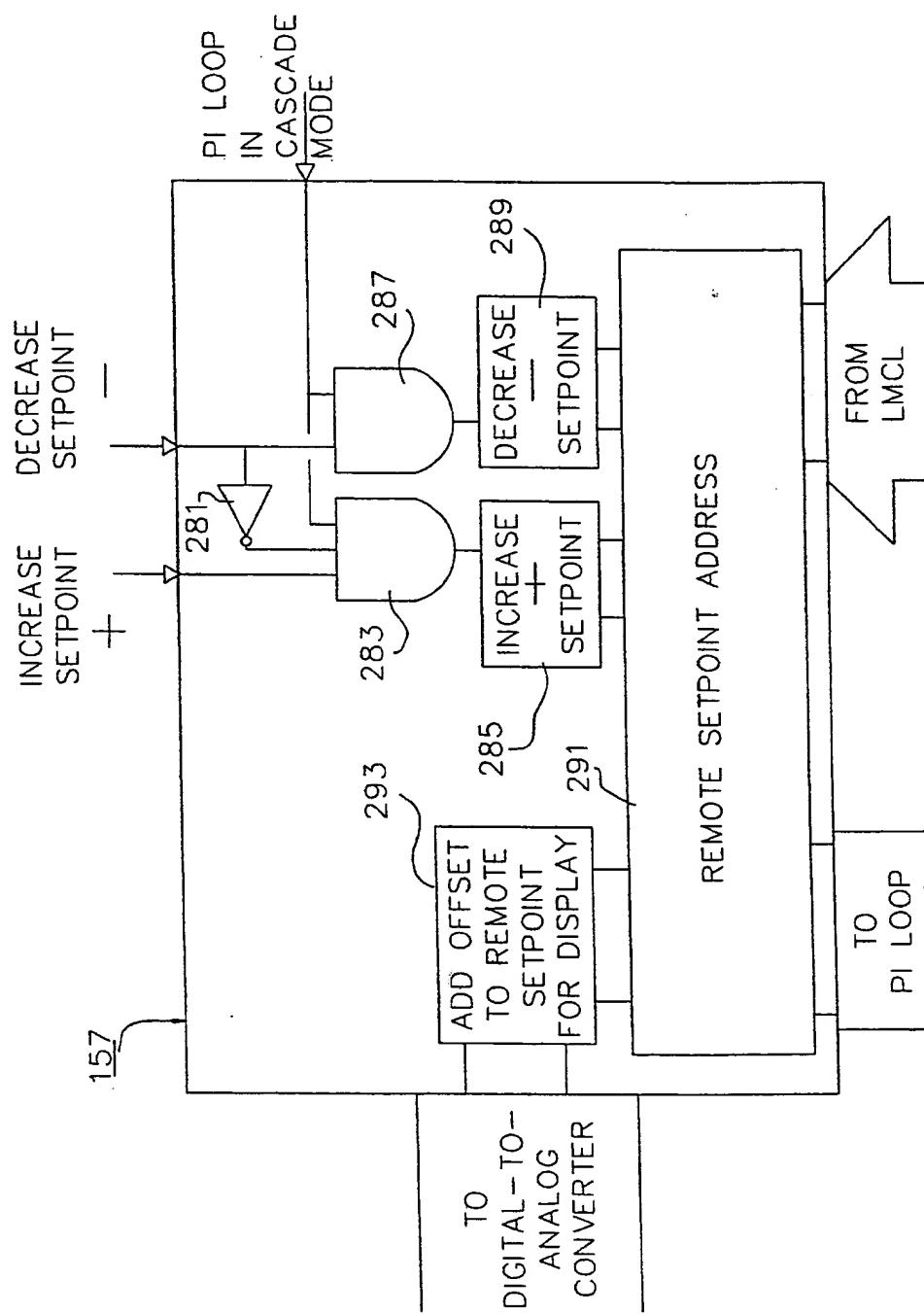


FIGURE 12

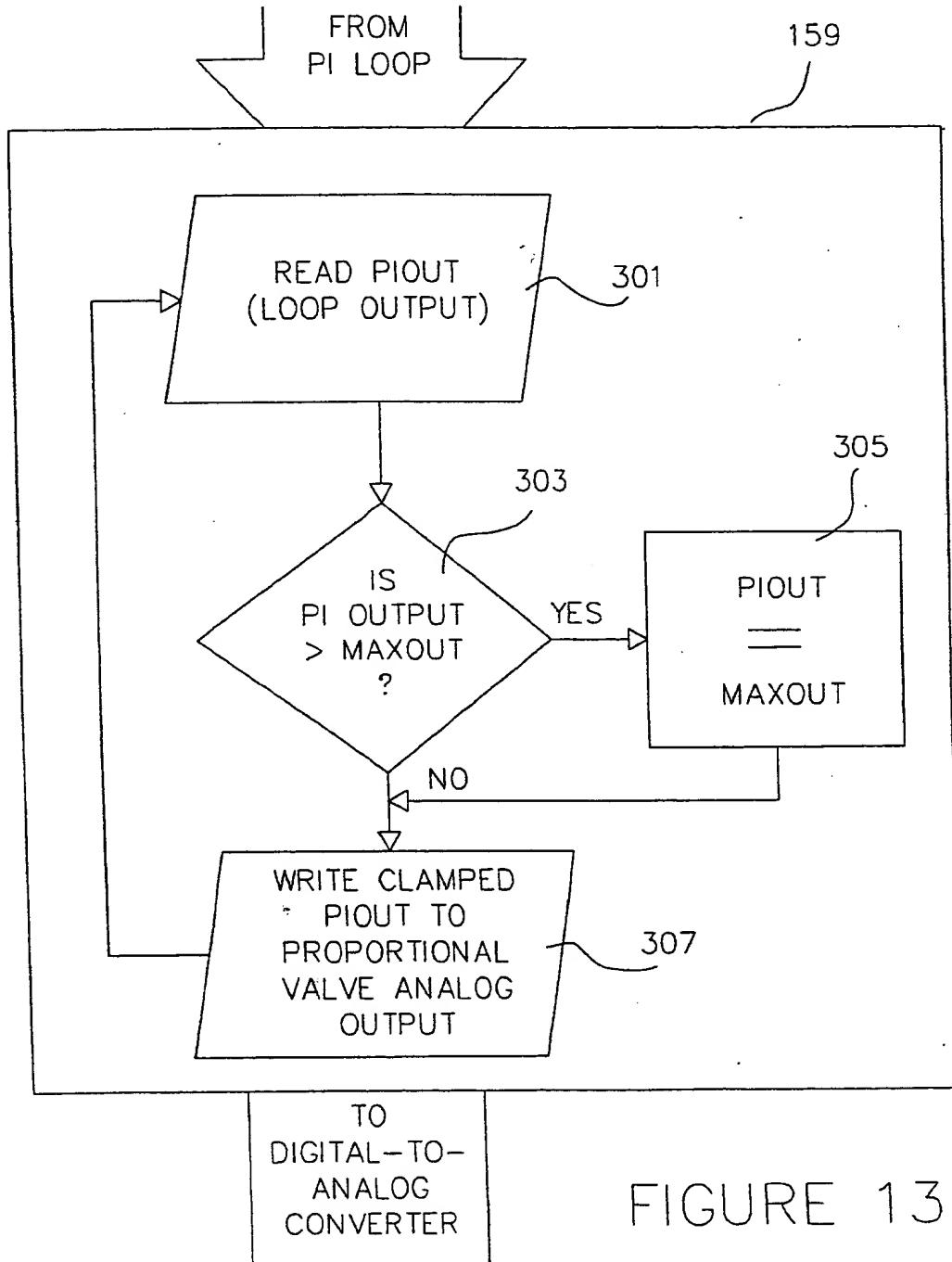


FIGURE 13

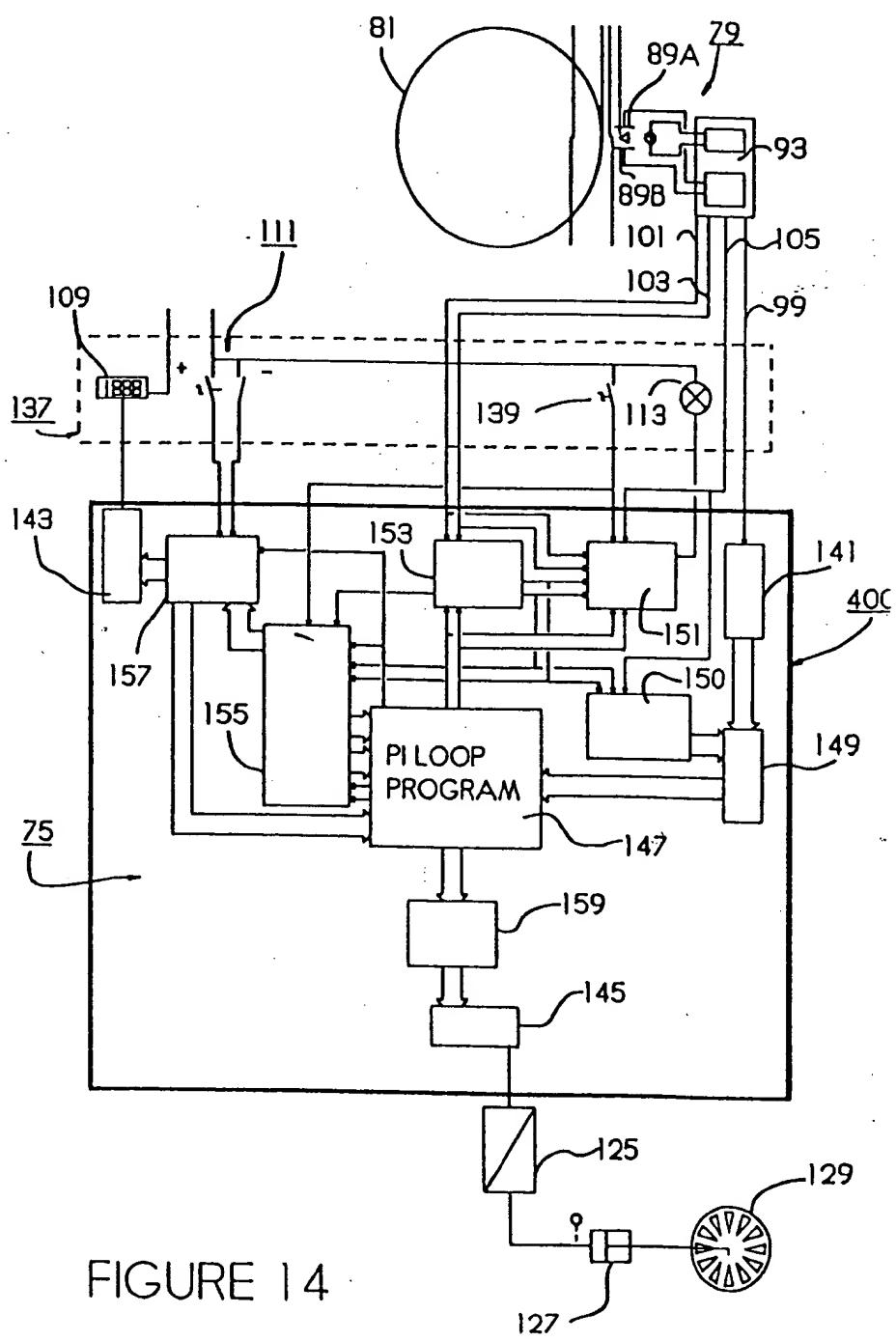


FIGURE 14

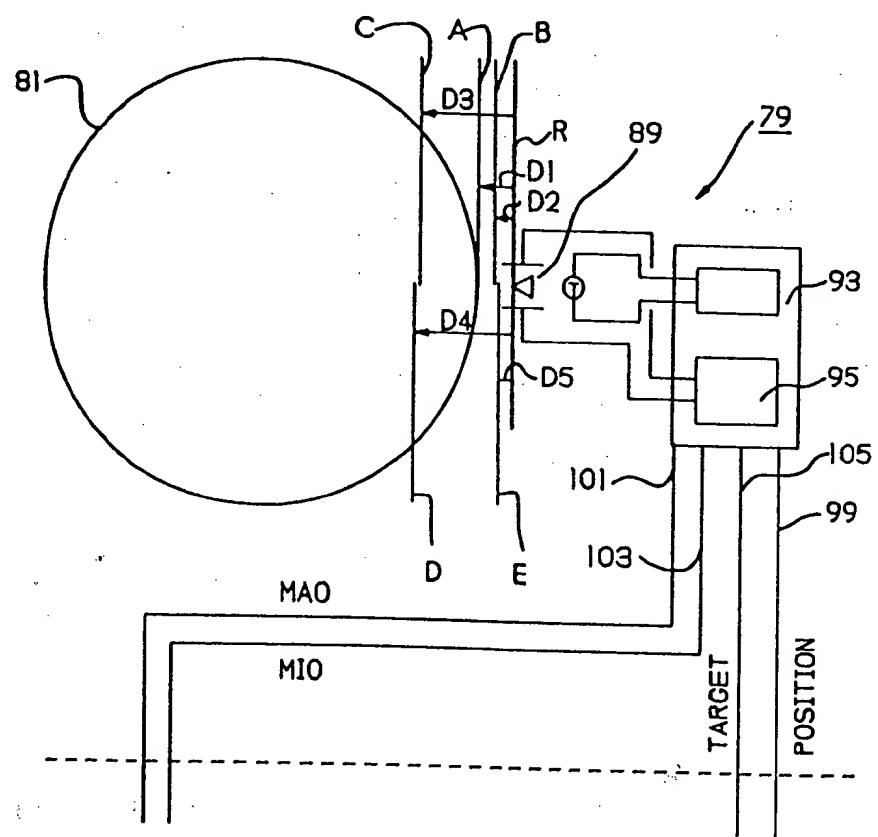


FIGURE 15

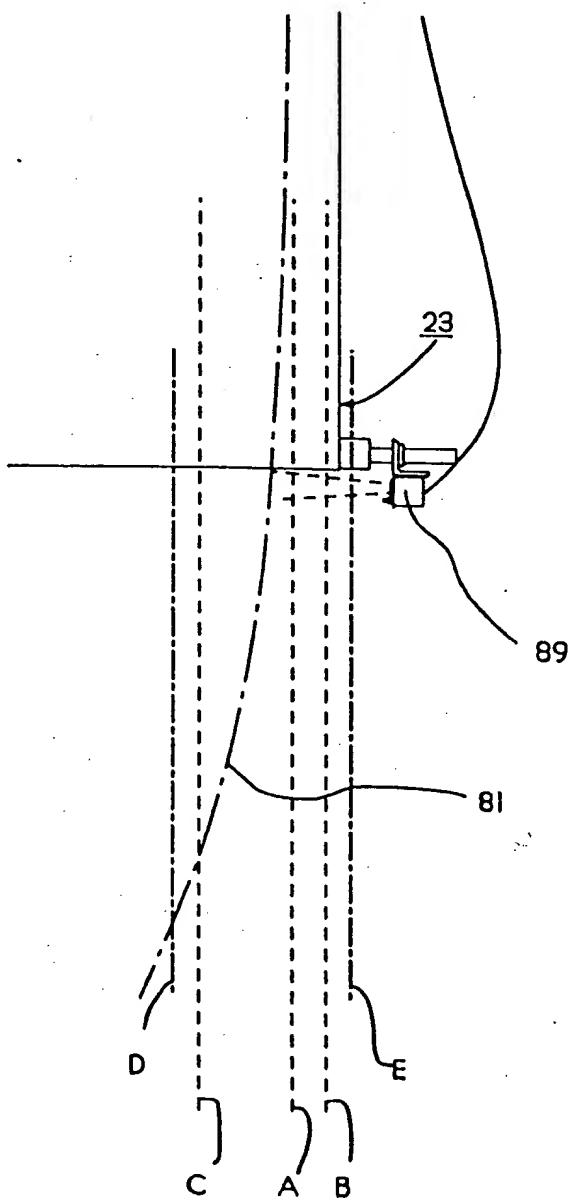
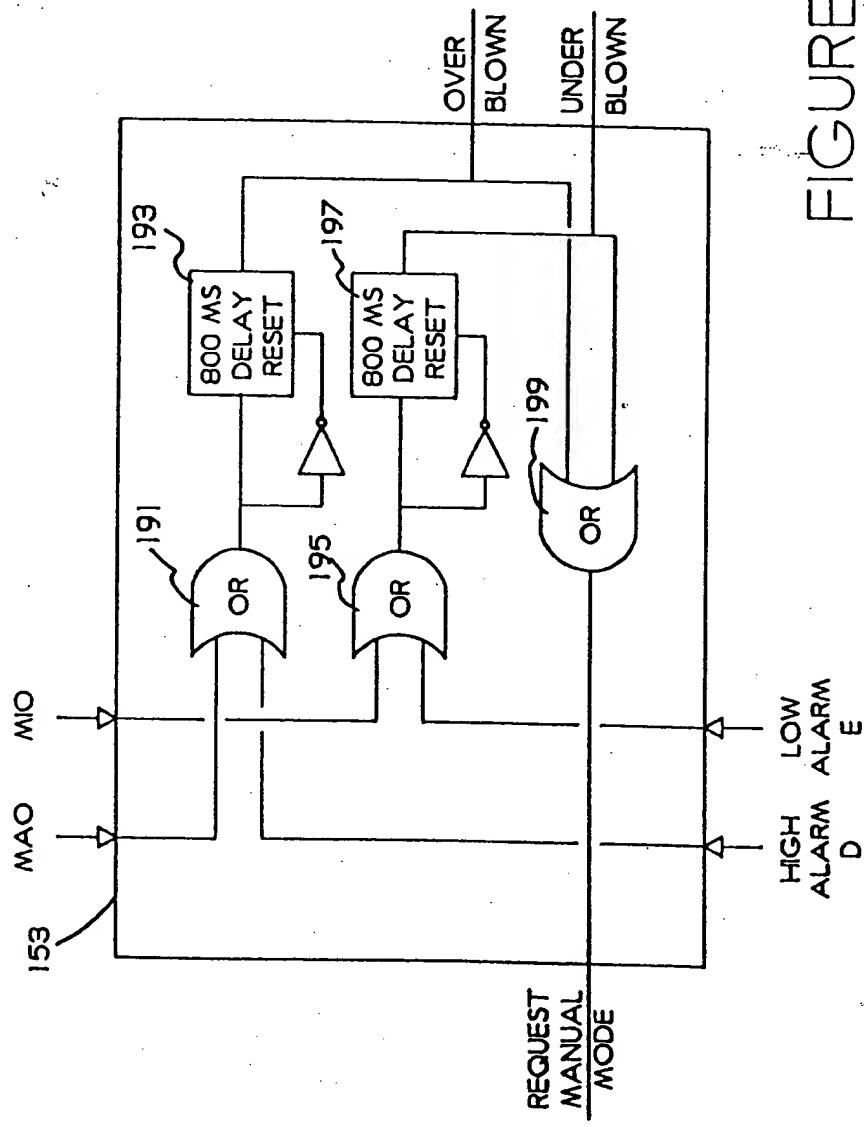


FIGURE 16

FIGURE 17



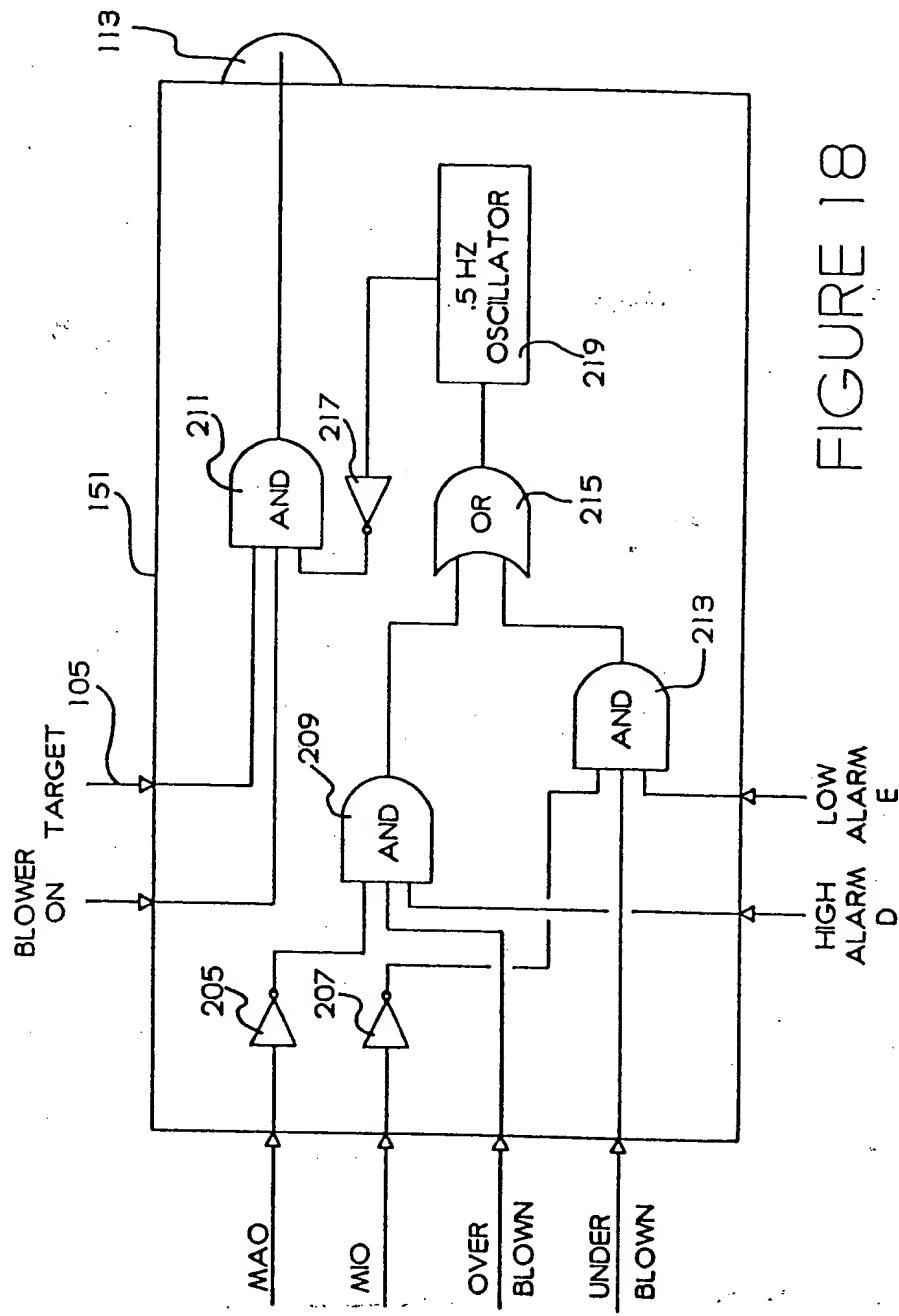
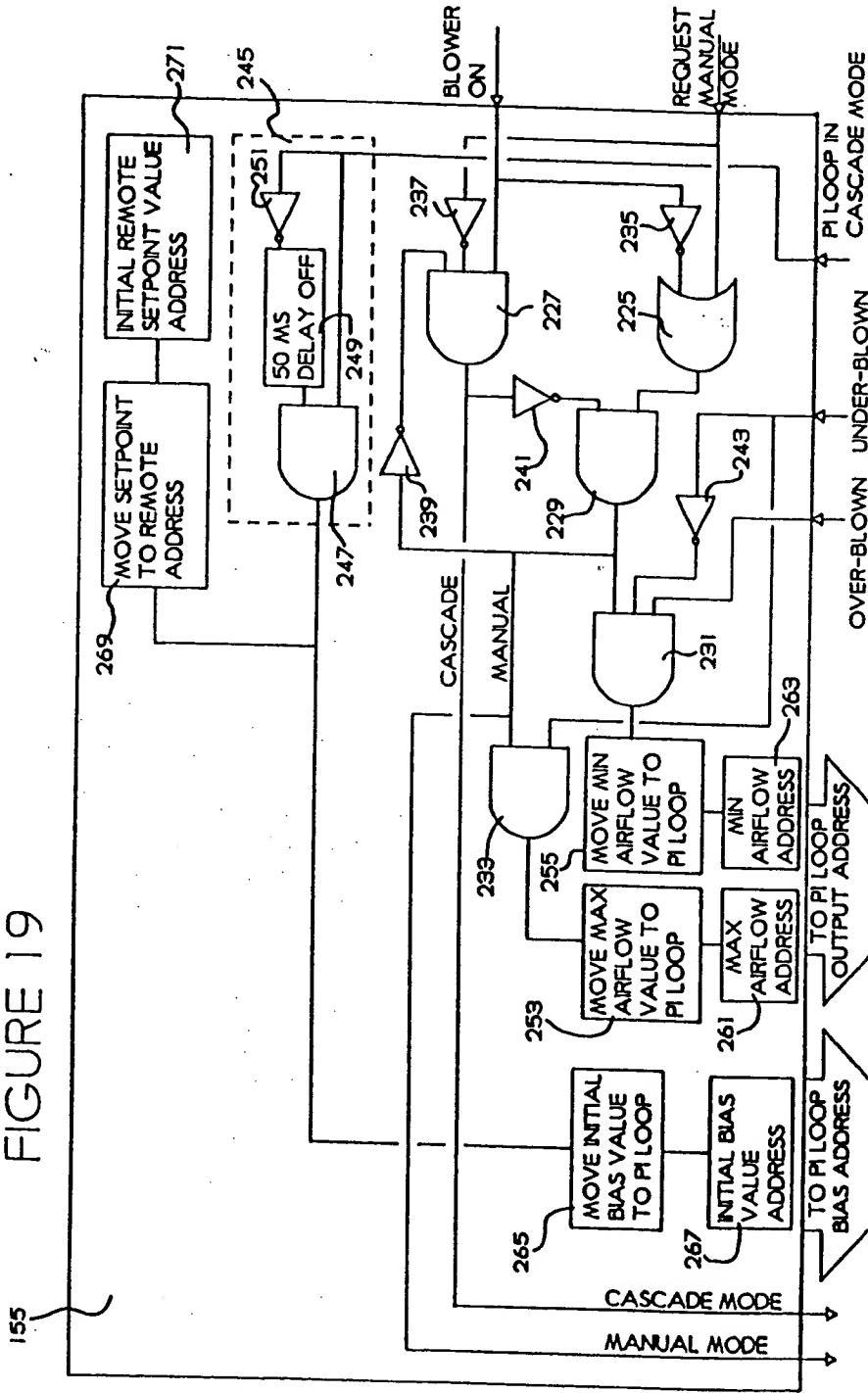


FIGURE 18

FIGURE 19



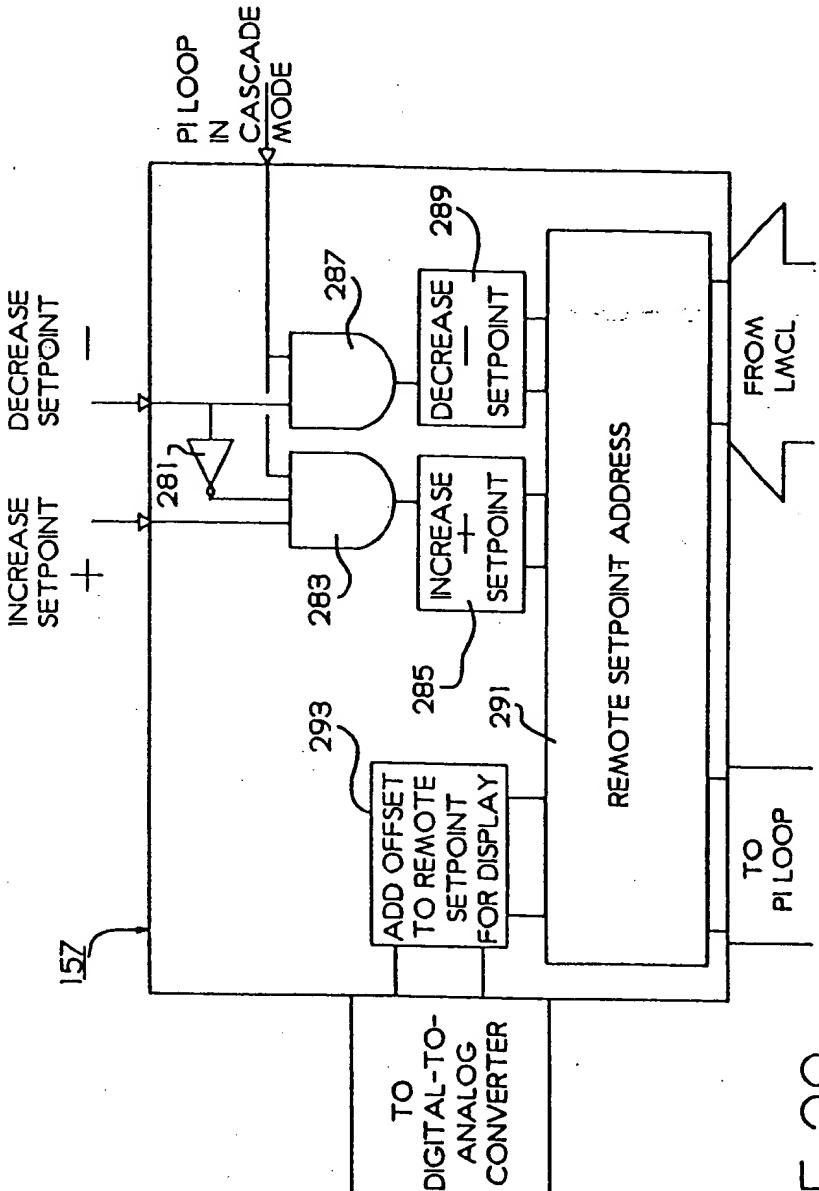


FIGURE 20

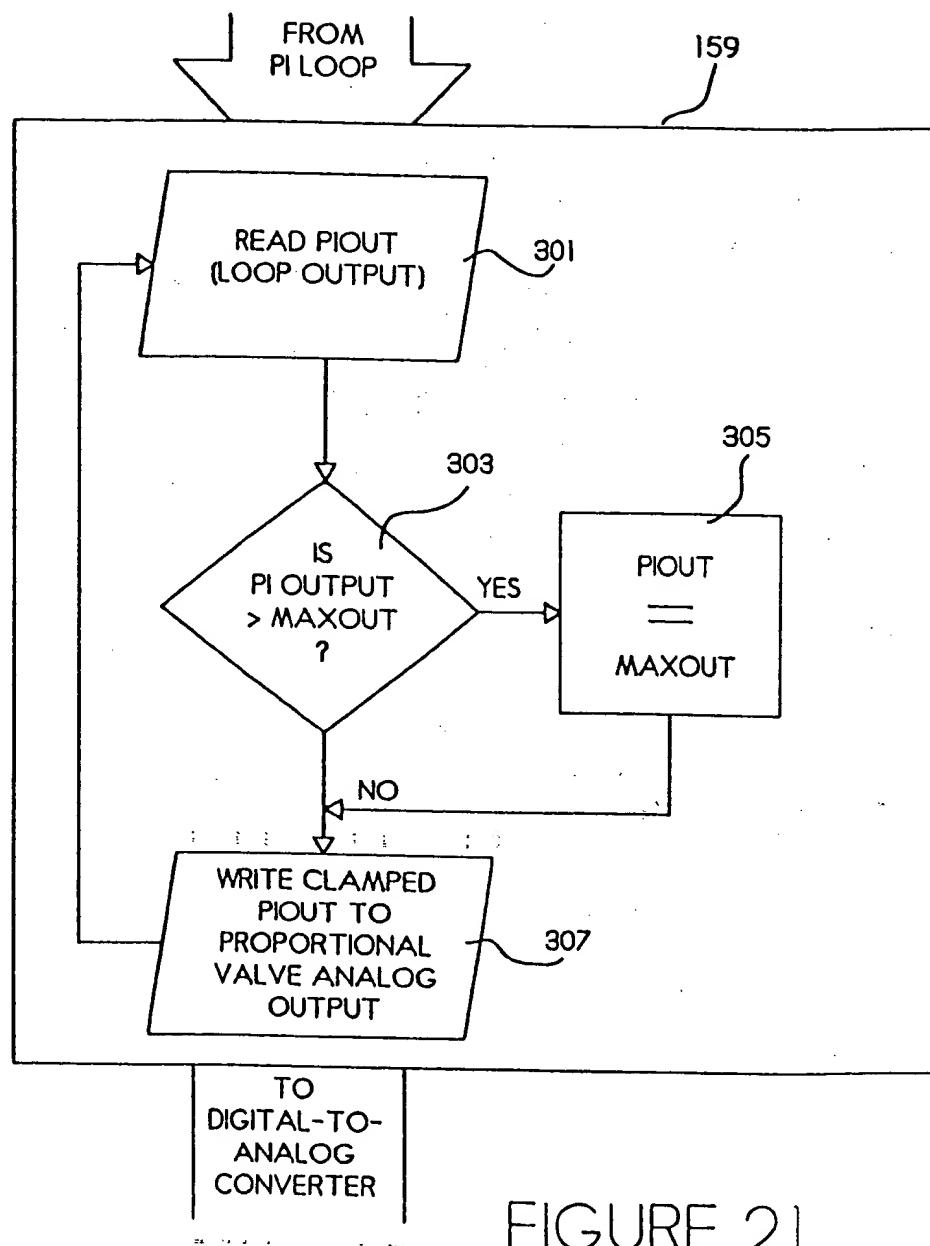
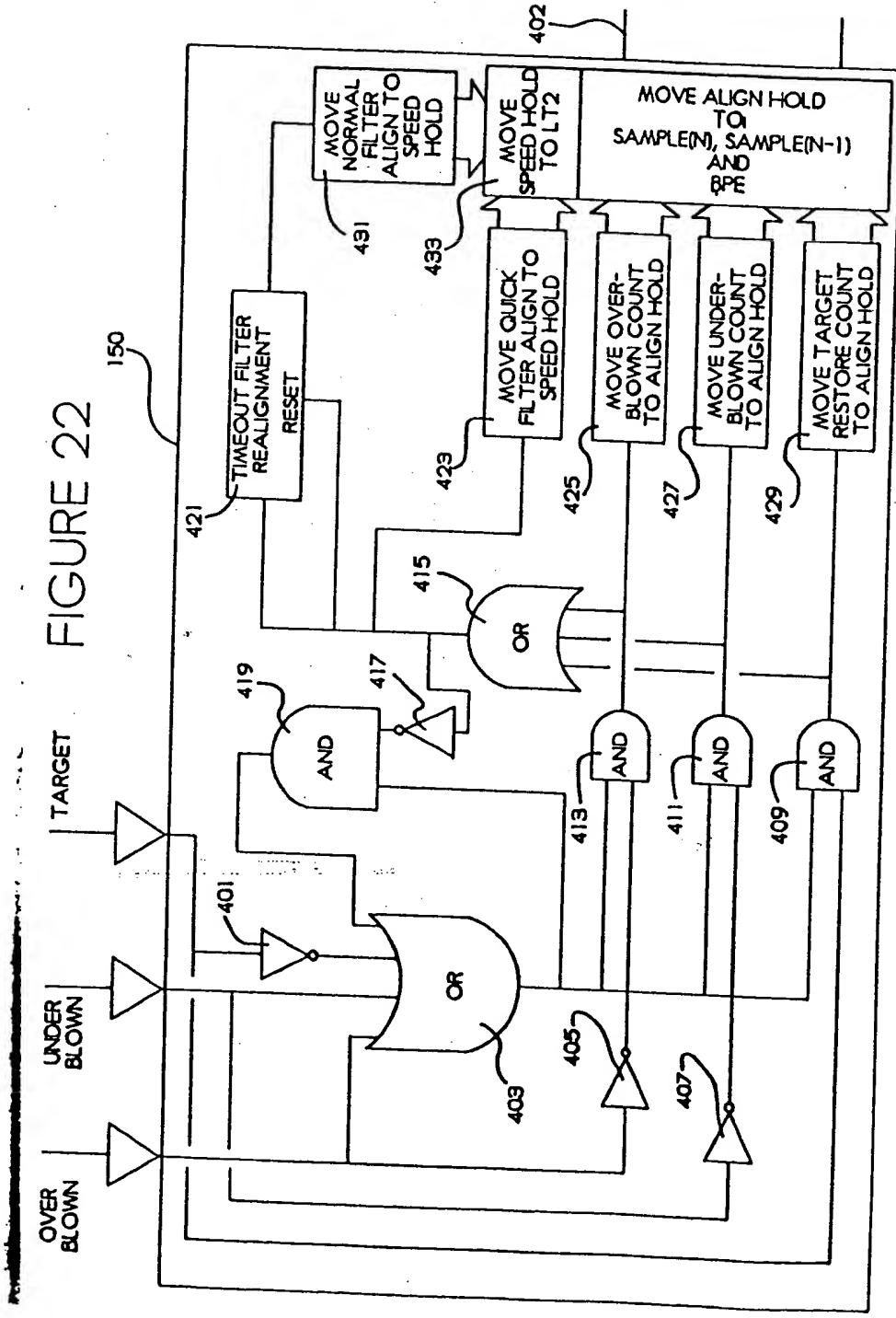
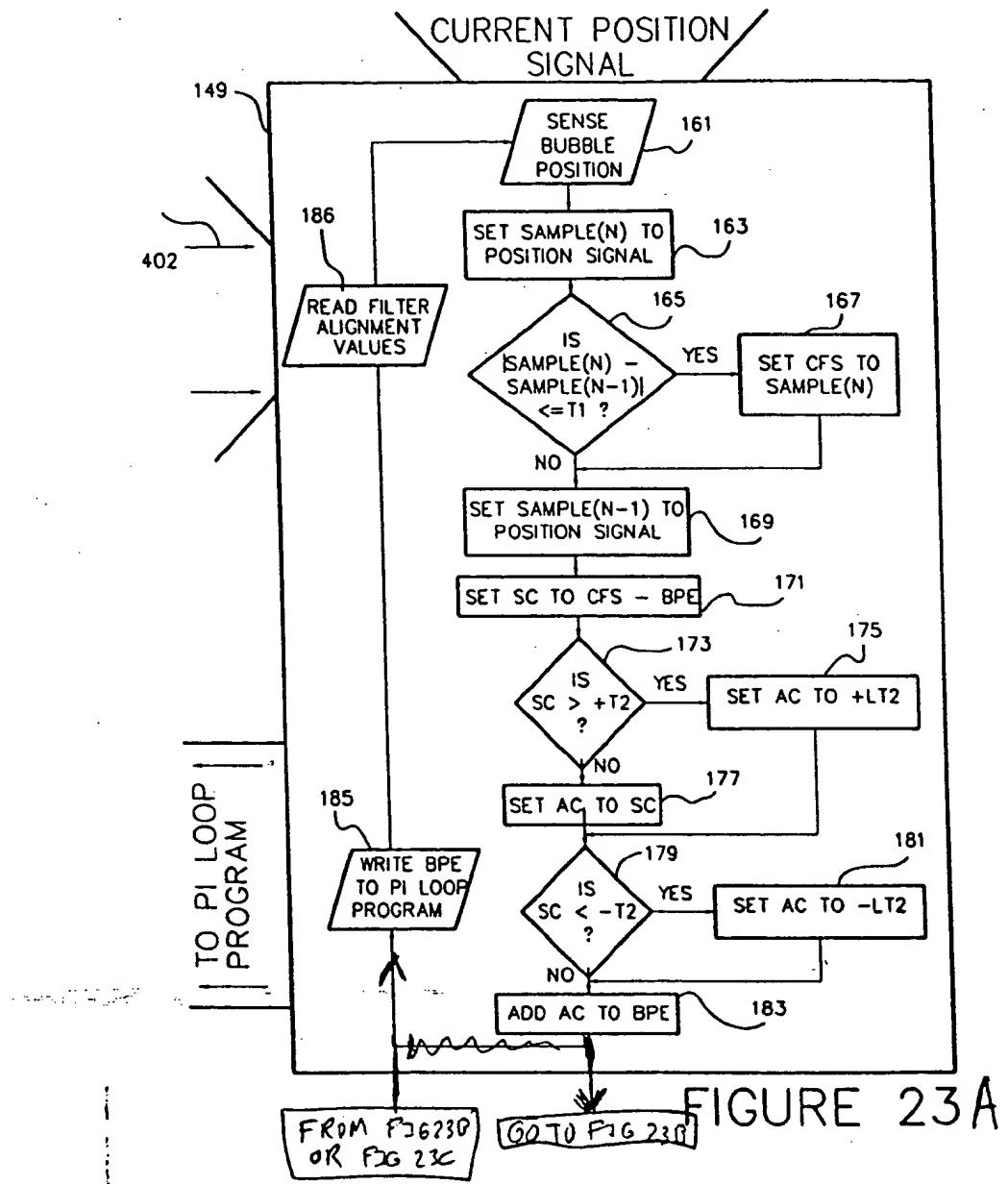


FIGURE 21

FIGURE 22





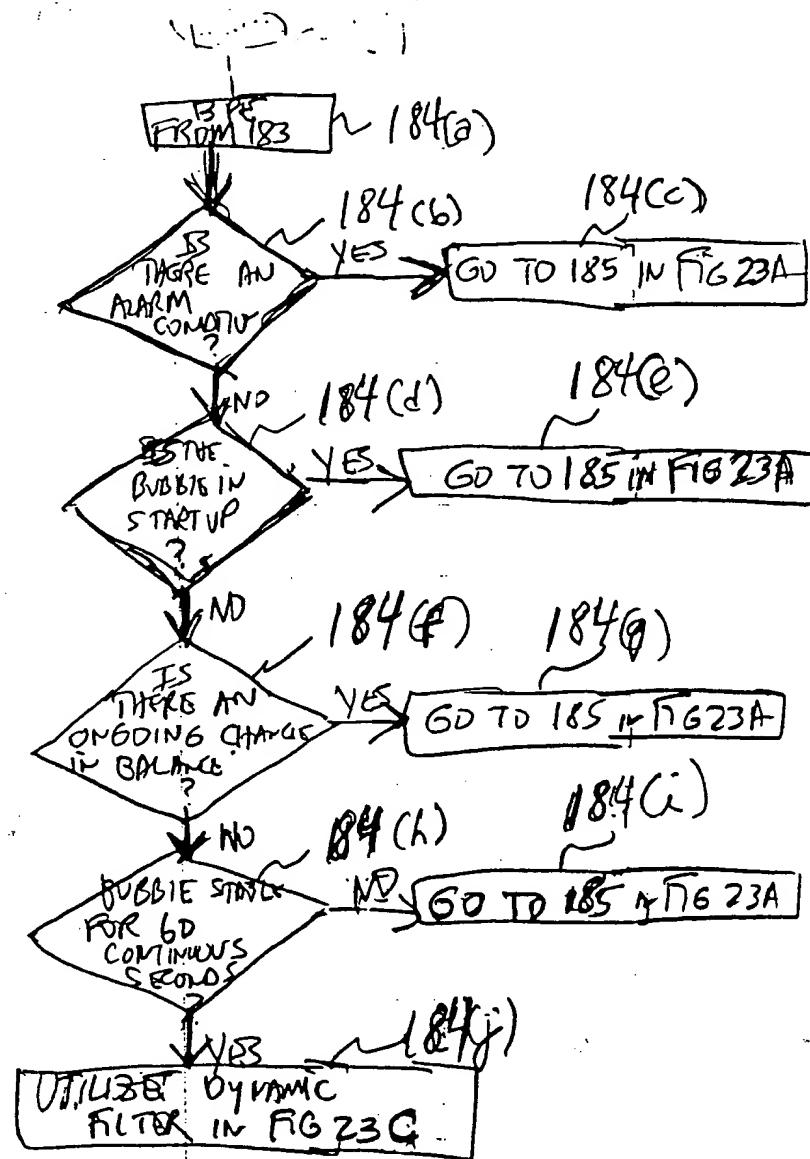


FIGURE 23B

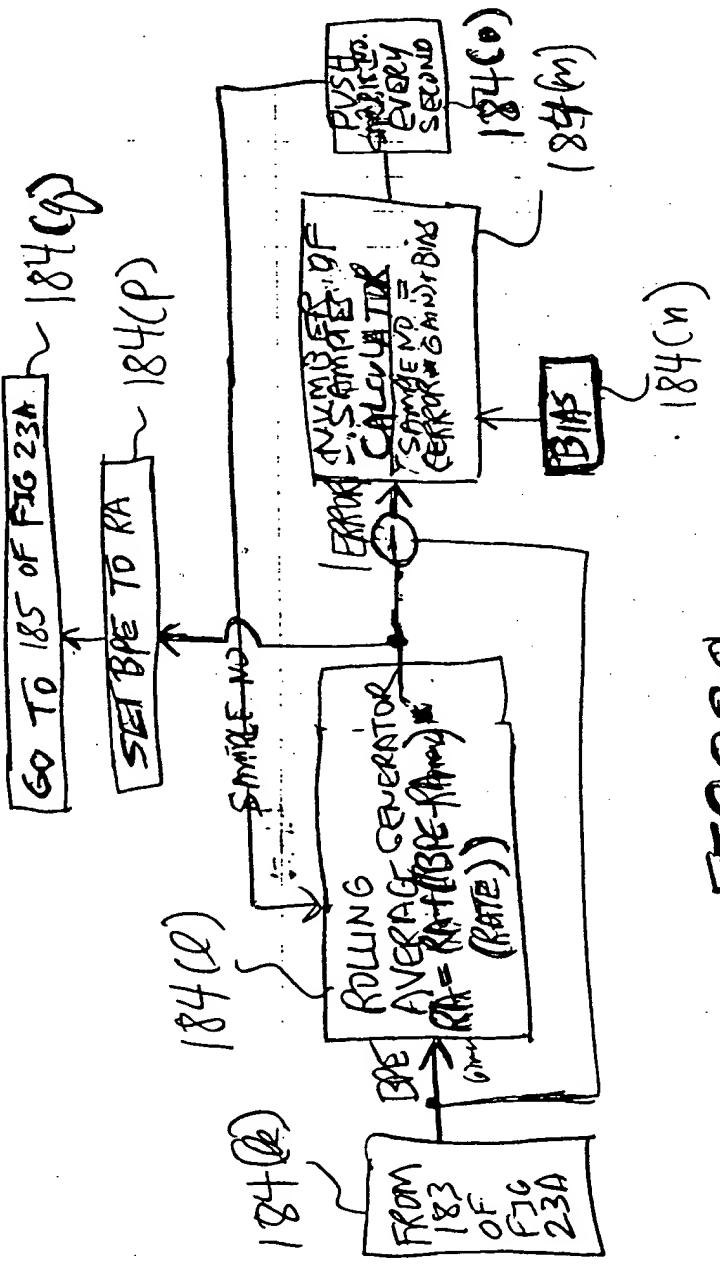


FIG 23C

Various IBC Signals

Without Dynamic Filter

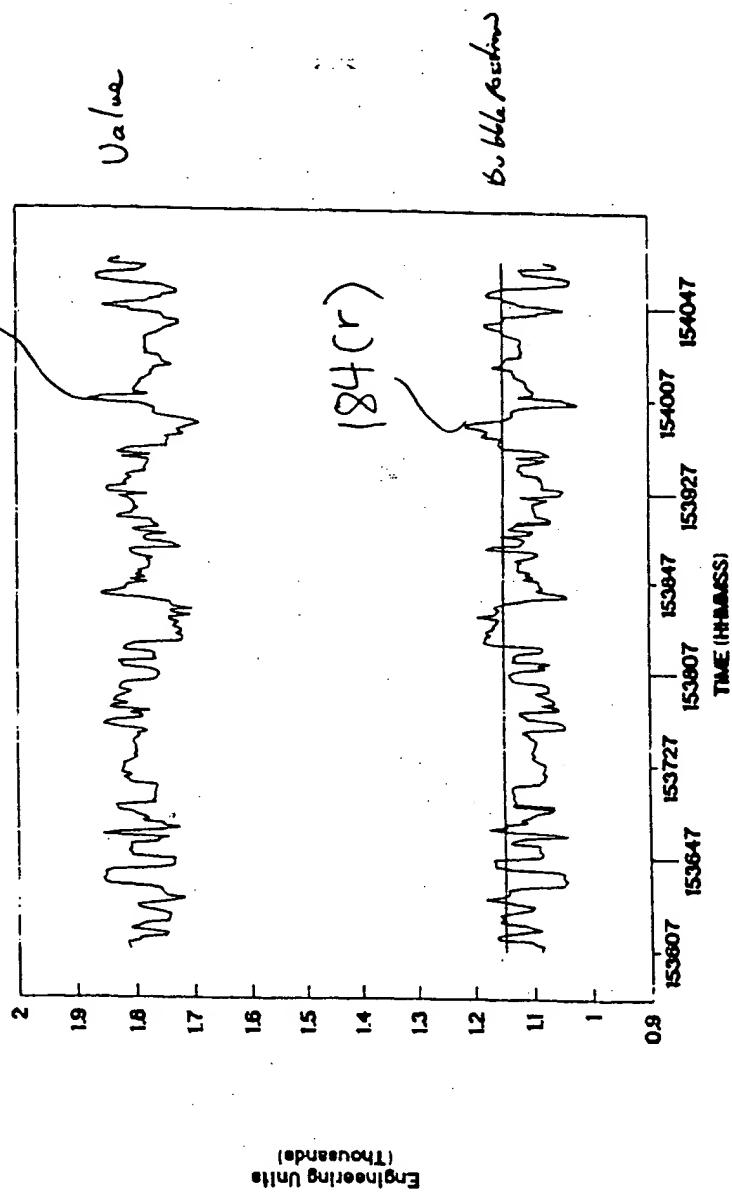


Figure 23 D

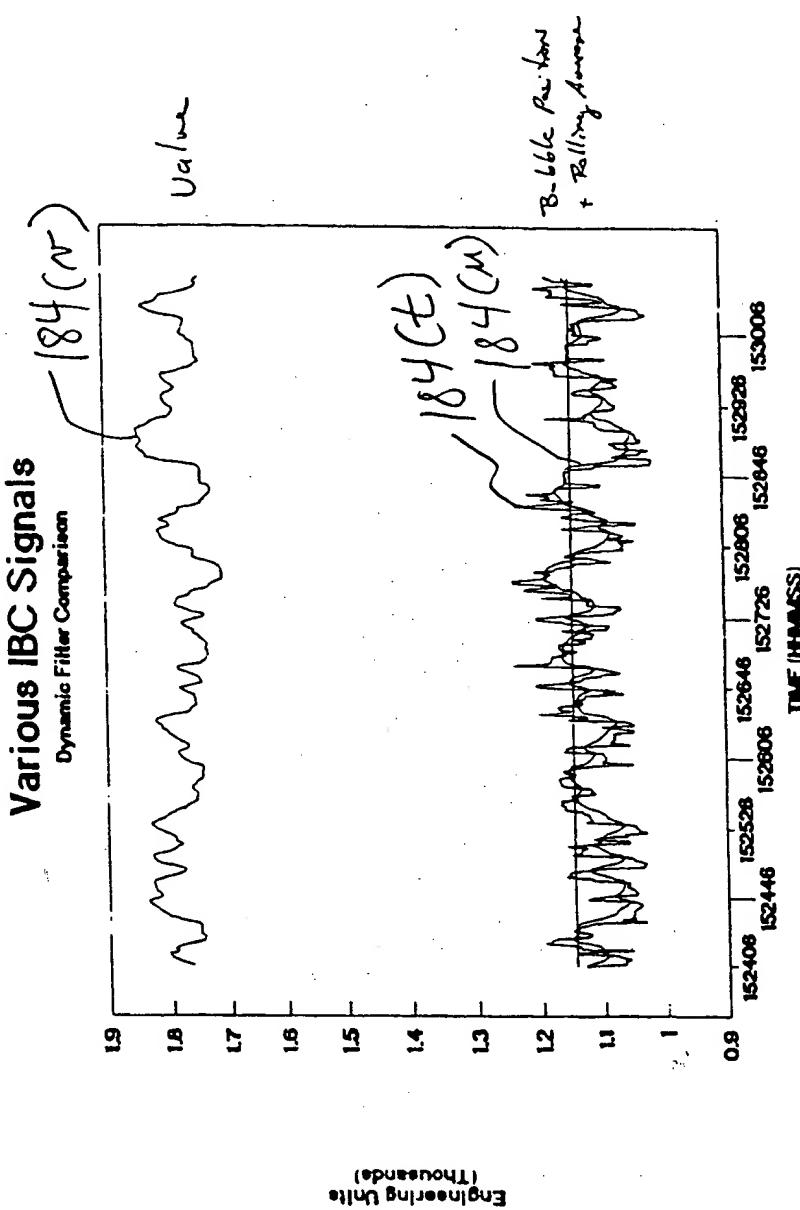
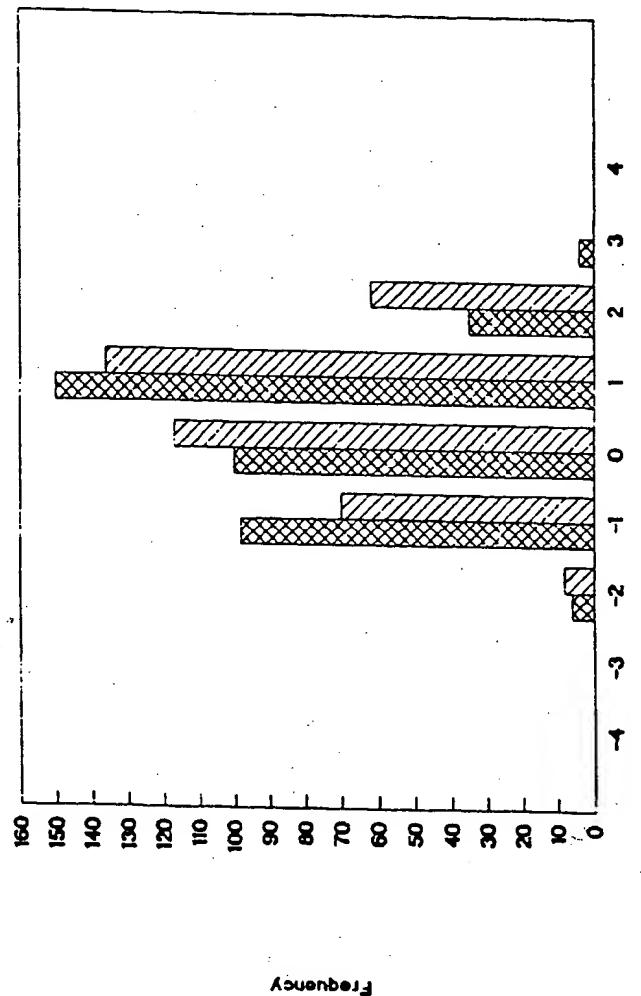


Figure 23E

Frequency Distribution Comparison

Dynamic Filter vs. BPE



Std Dev
BPE Dynamic Filter

FIGURE 23F

Various IBC Signals

Start-up With Dynamic Filter

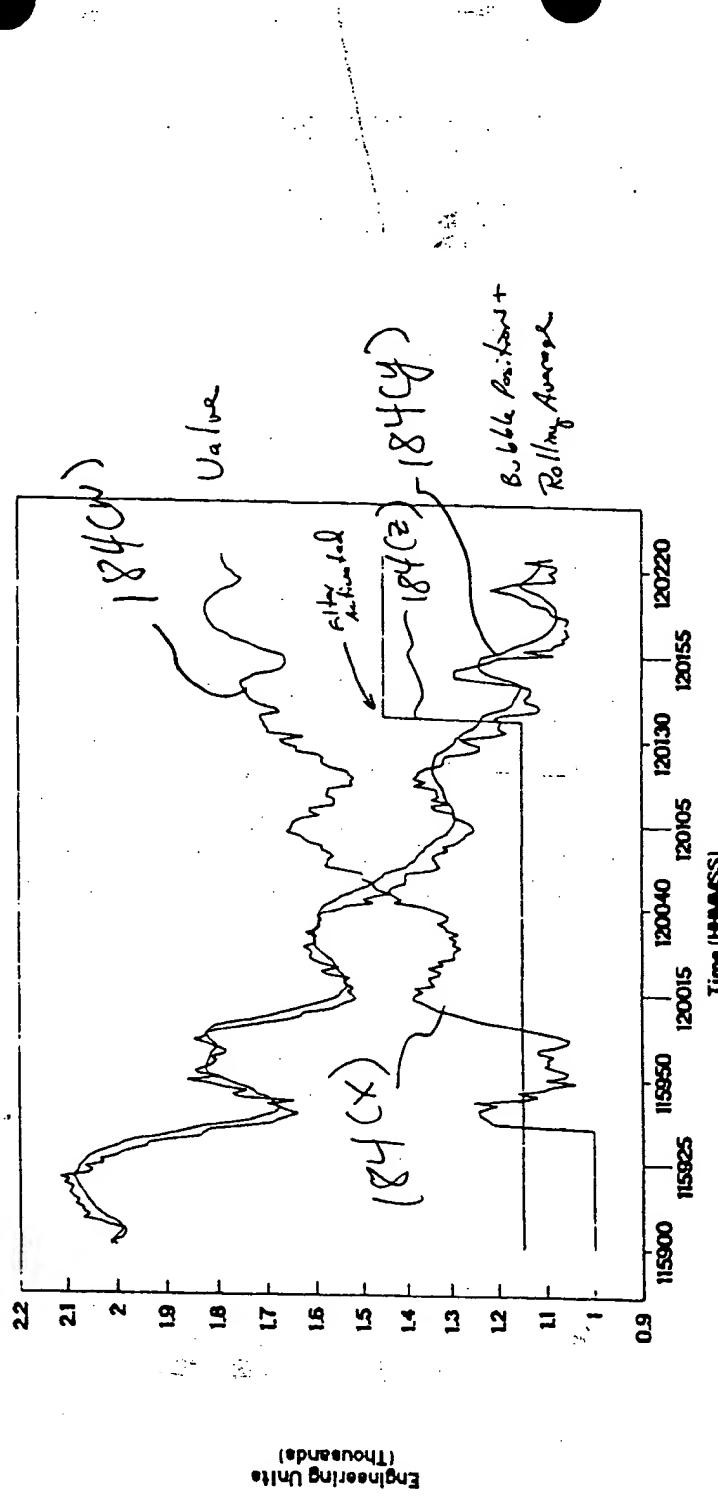


FIG 23G

IS-IBC1 FILTER SIMULATION
INPUT = RAMPING LINE WITH RANDOM NOISE

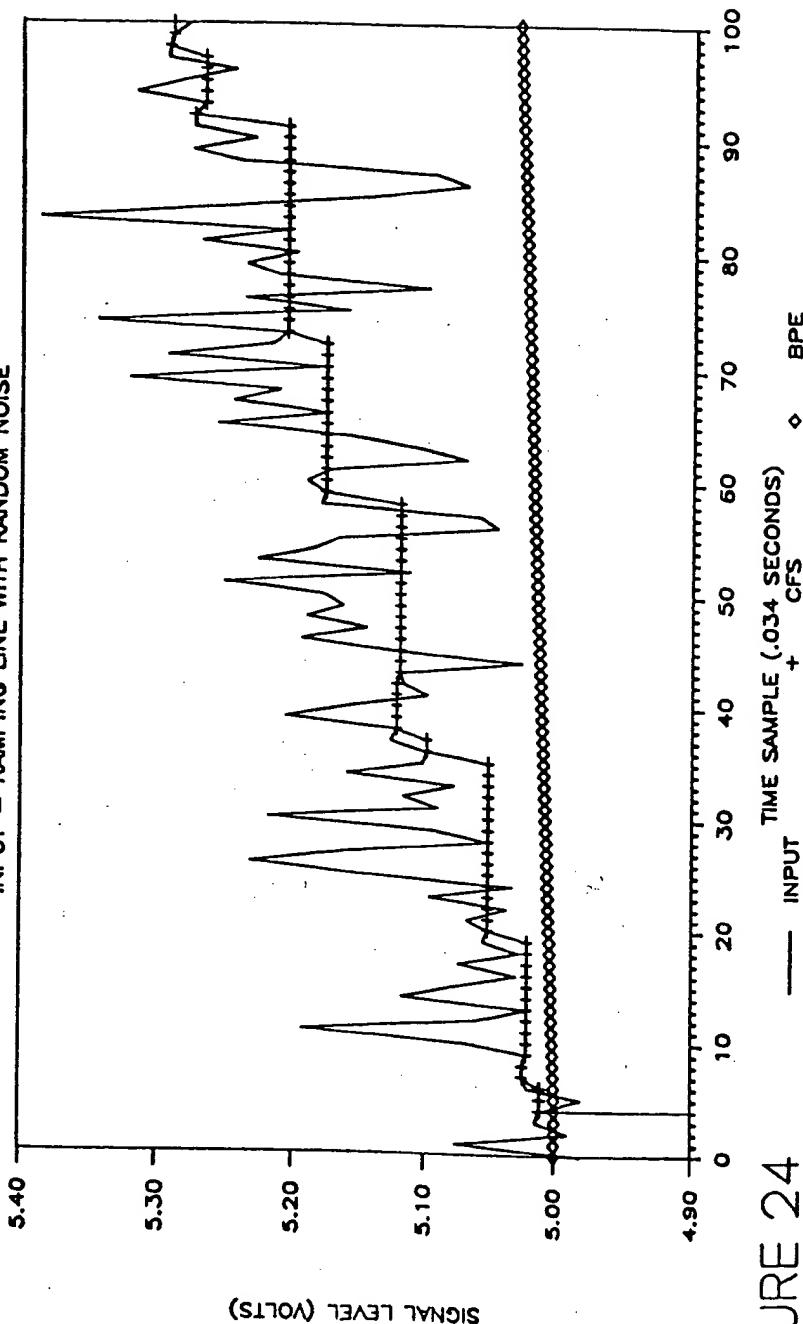


FIGURE 24

FIGURE 25A

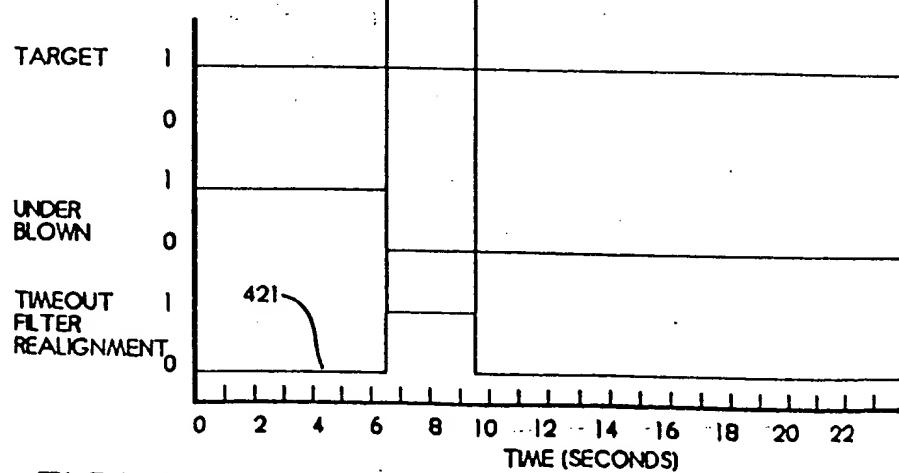
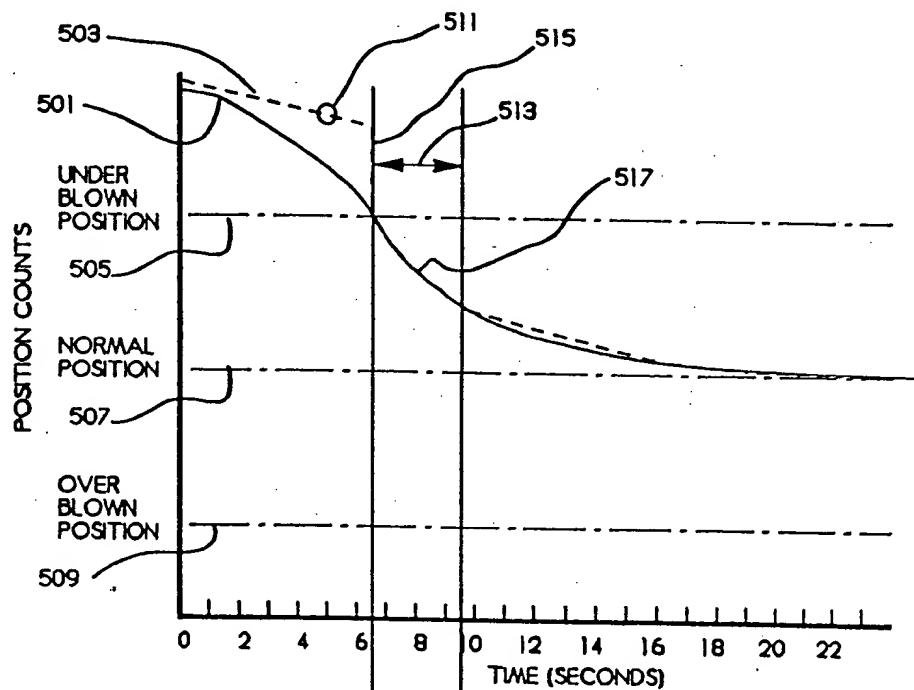


FIGURE 25B

FIGURE 26A

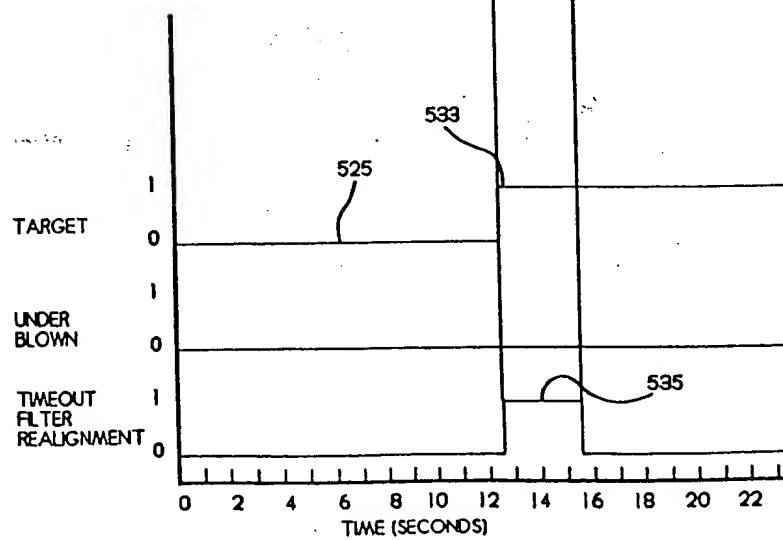
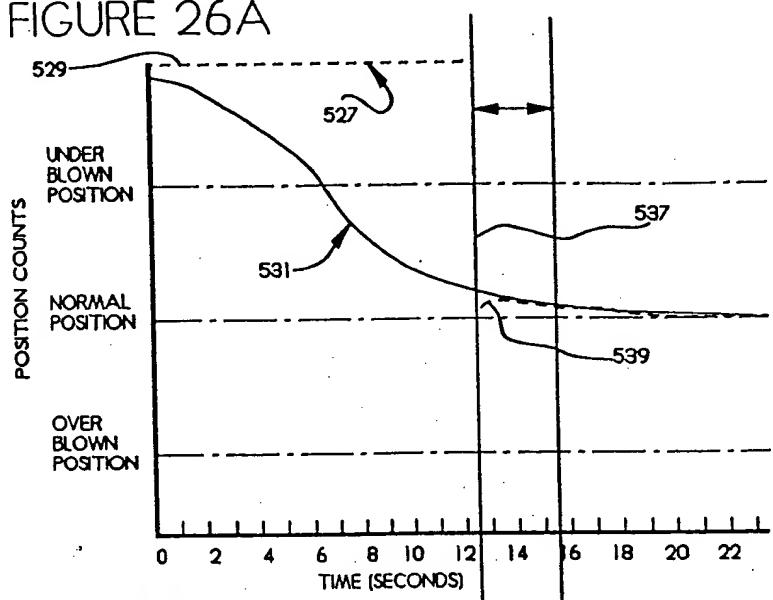


FIGURE 26B

FIGURE 27A

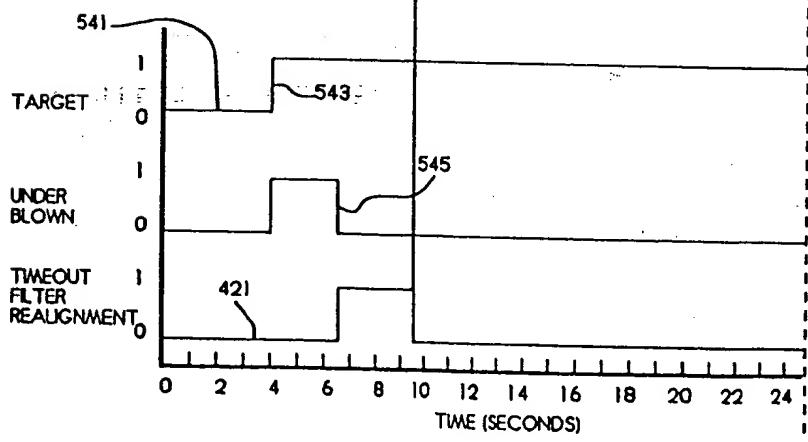
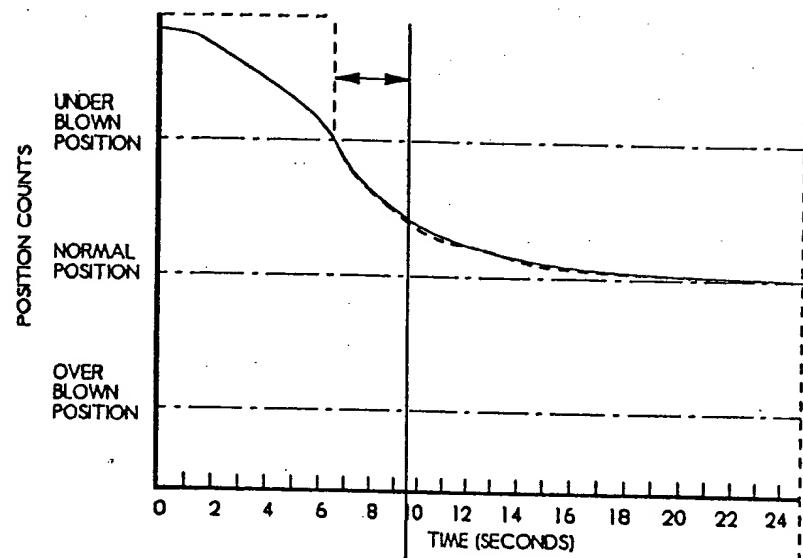


FIGURE 27B

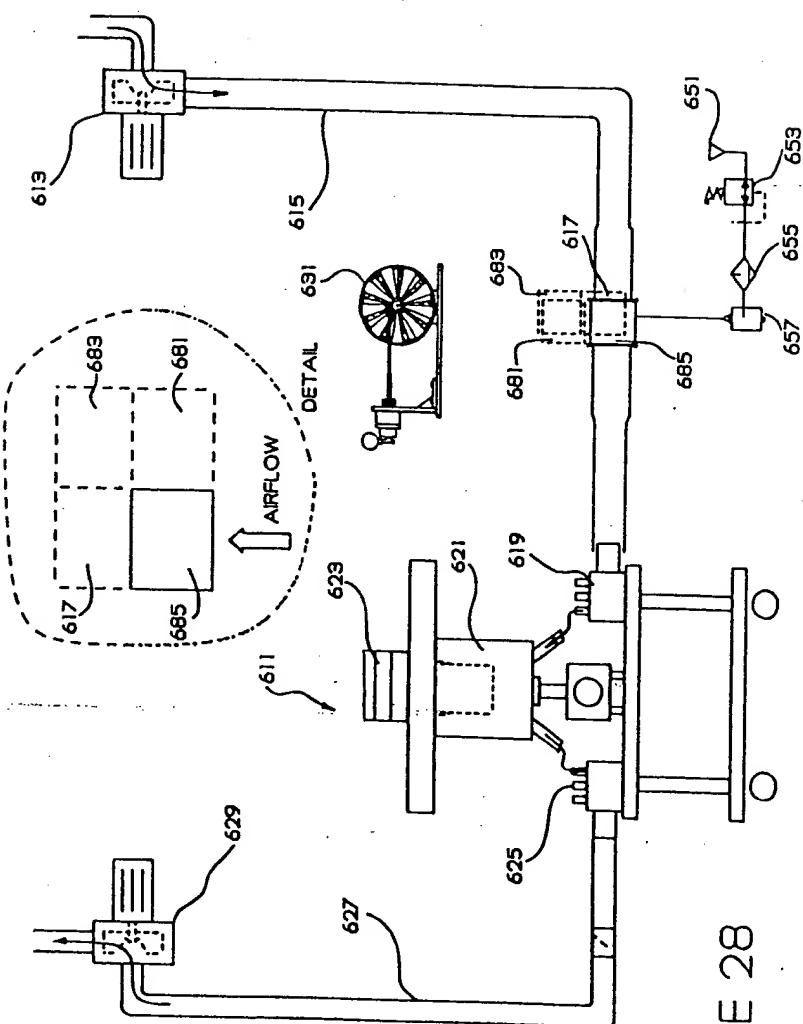


FIGURE 28

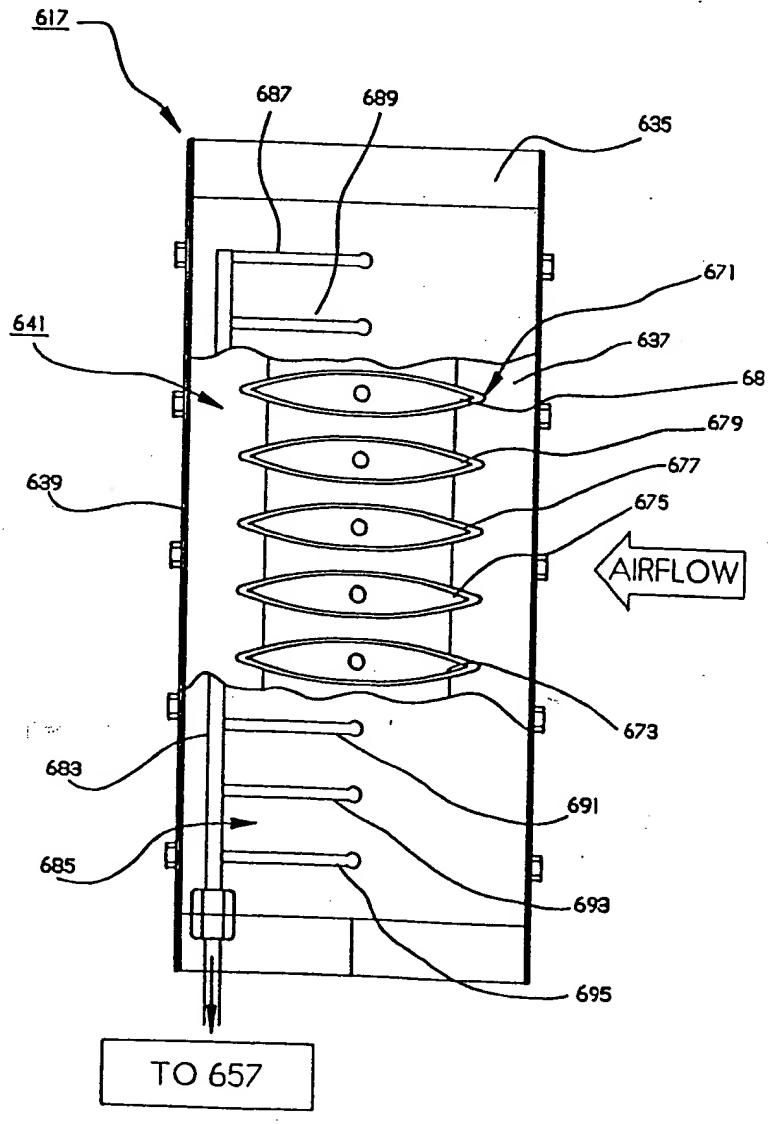


FIGURE 29

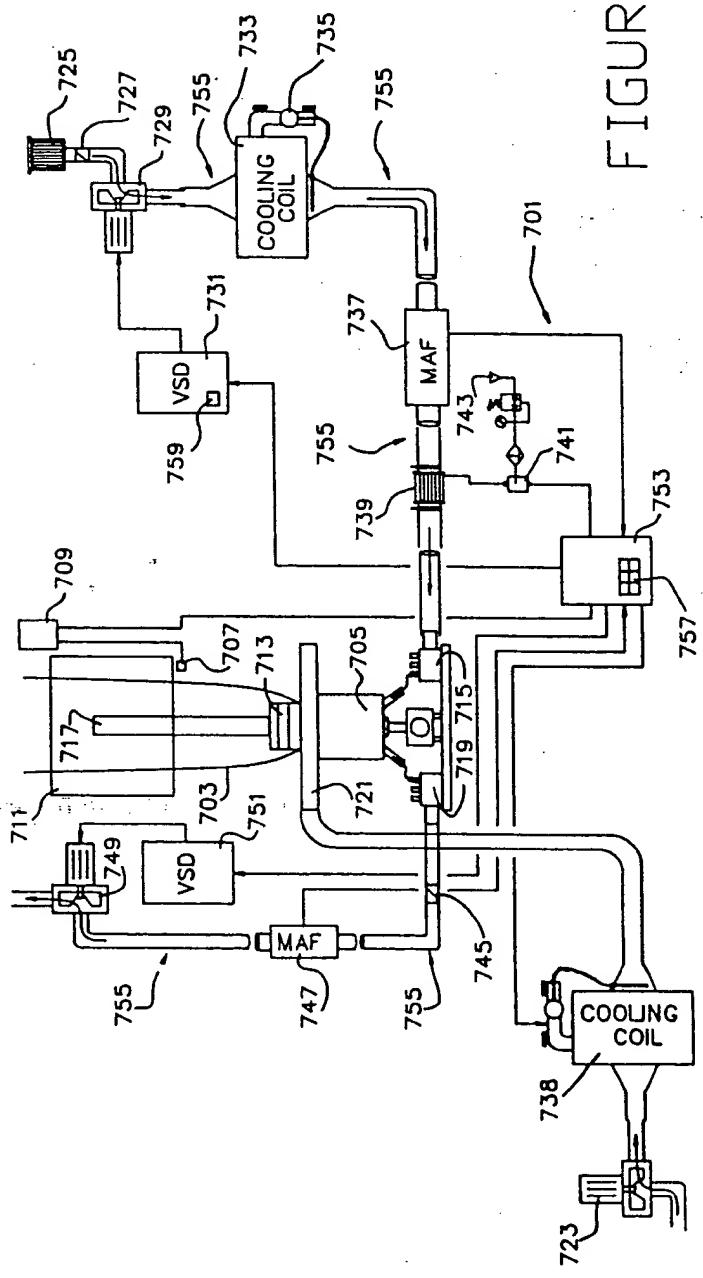
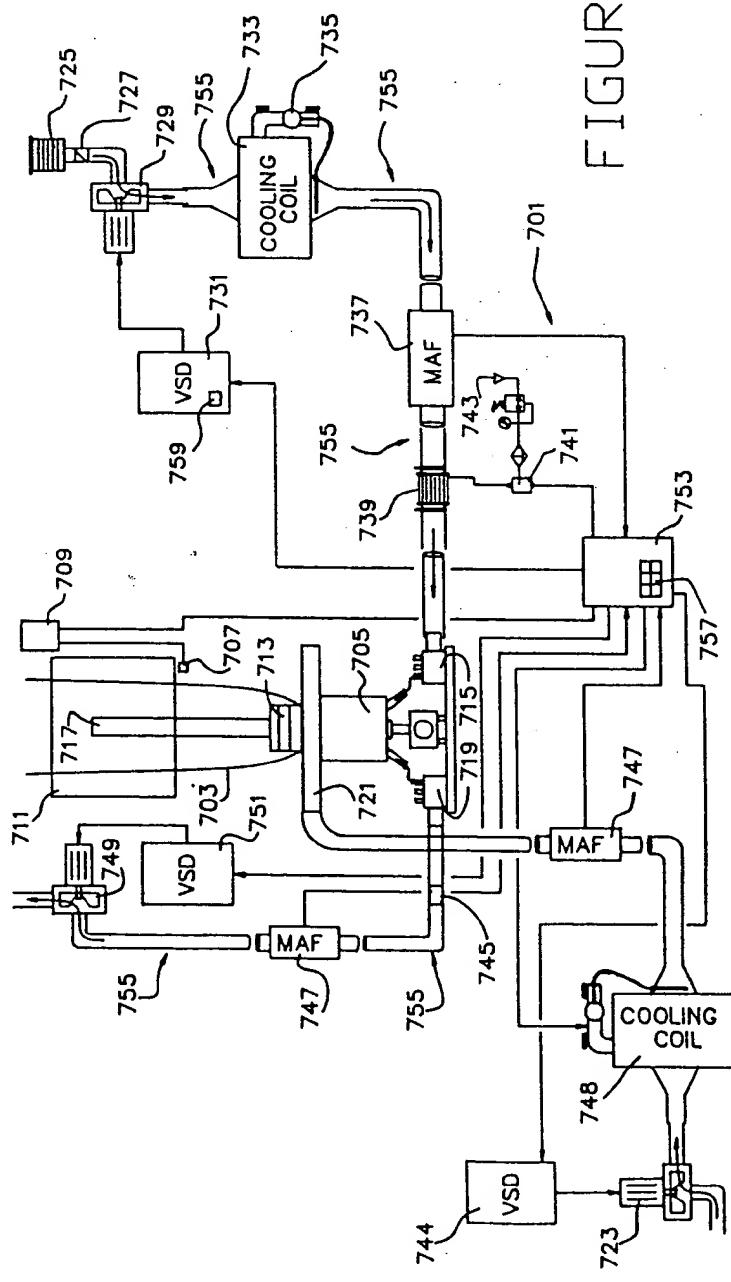


FIGURE 30

FIGURE 31



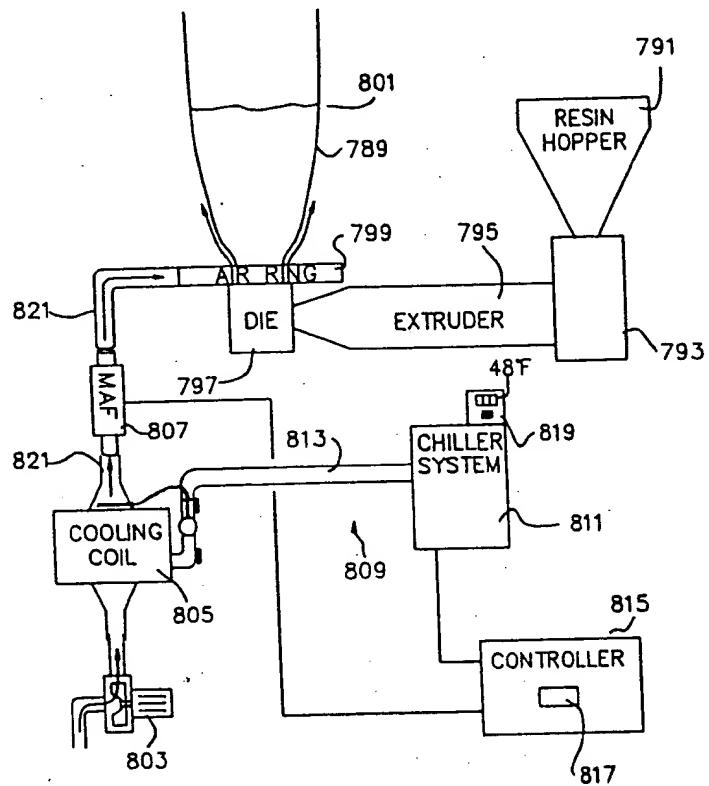


FIGURE 32

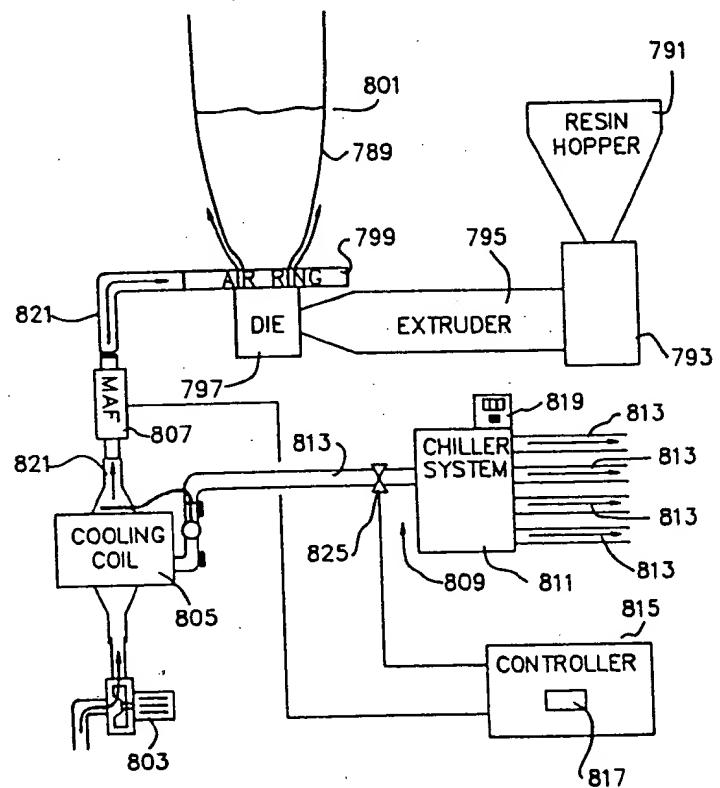


FIGURE 33

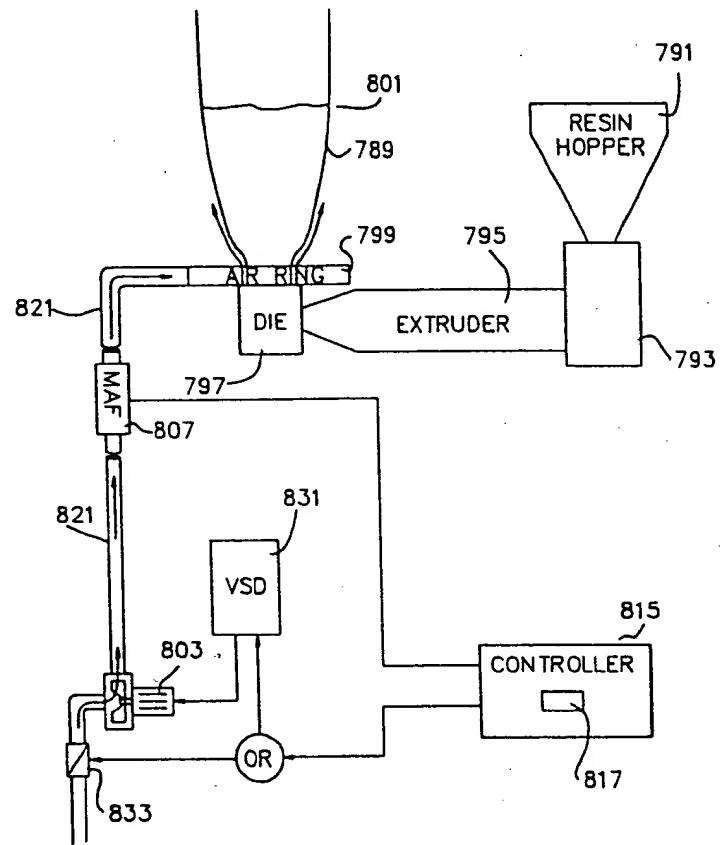


FIGURE 34

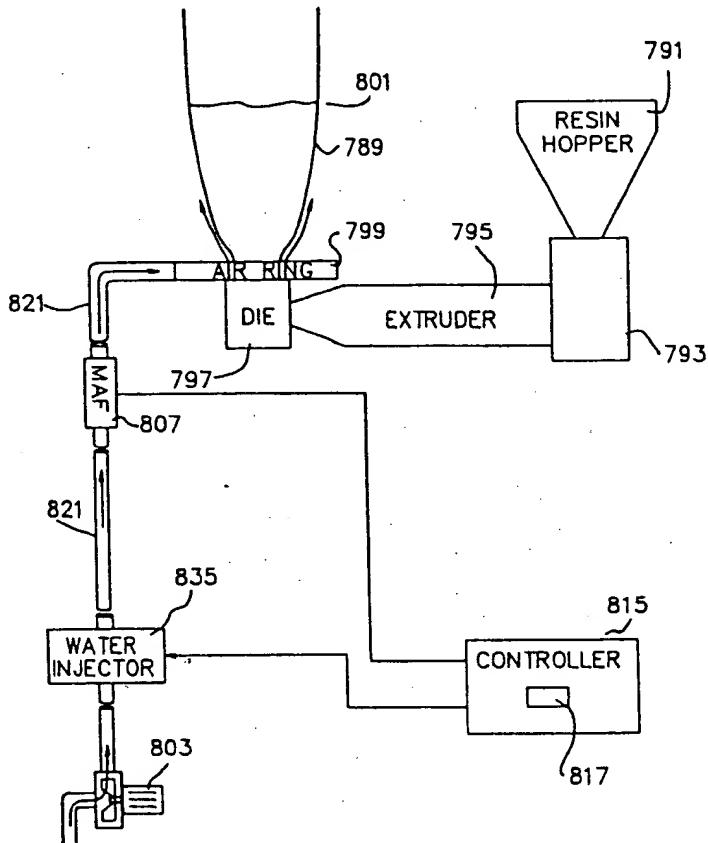


FIGURE 35

00000000000000000000000000000000

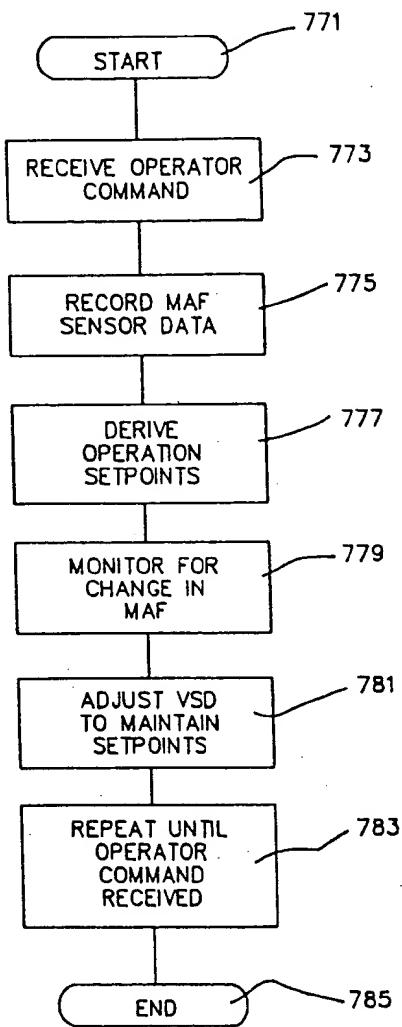


FIGURE 36

Client _____
File No. _____
Sheet No. ____ of ____

PATENT SKETCH FORM

Attorney _____

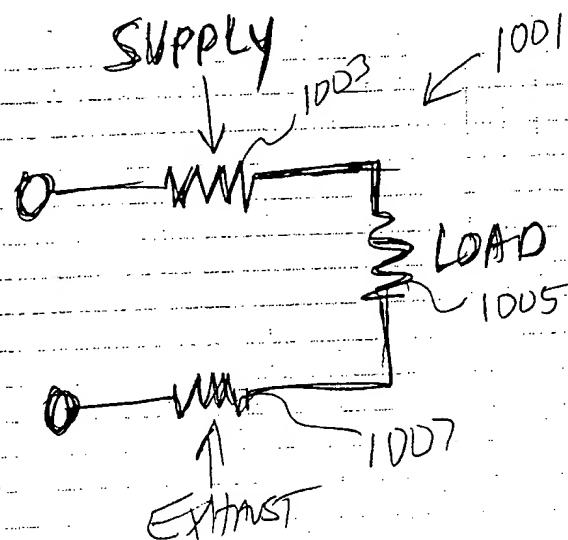


FIGURE 37A
(PRIOR ART)

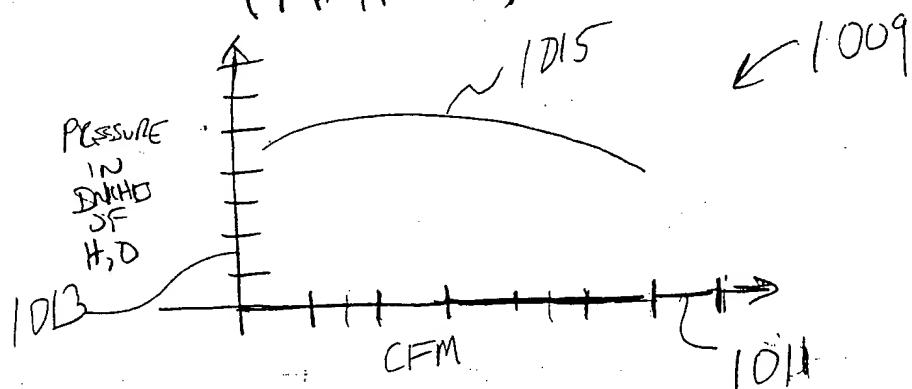


FIGURE 37B
(PRIOR ART)

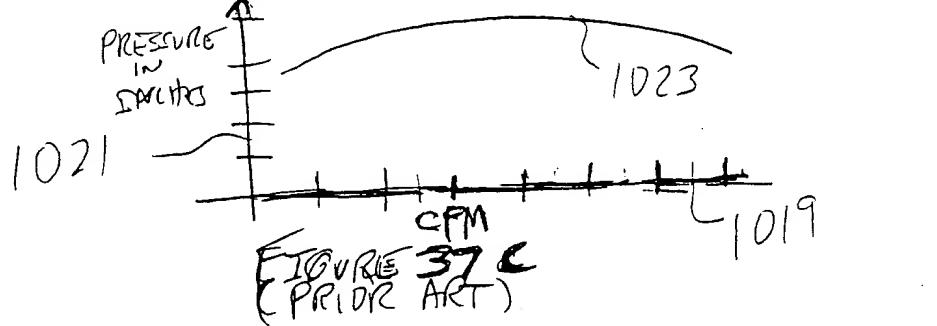


FIGURE 37C
(PRIOR ART)

PATENT SKETCH FORM

Attorney .

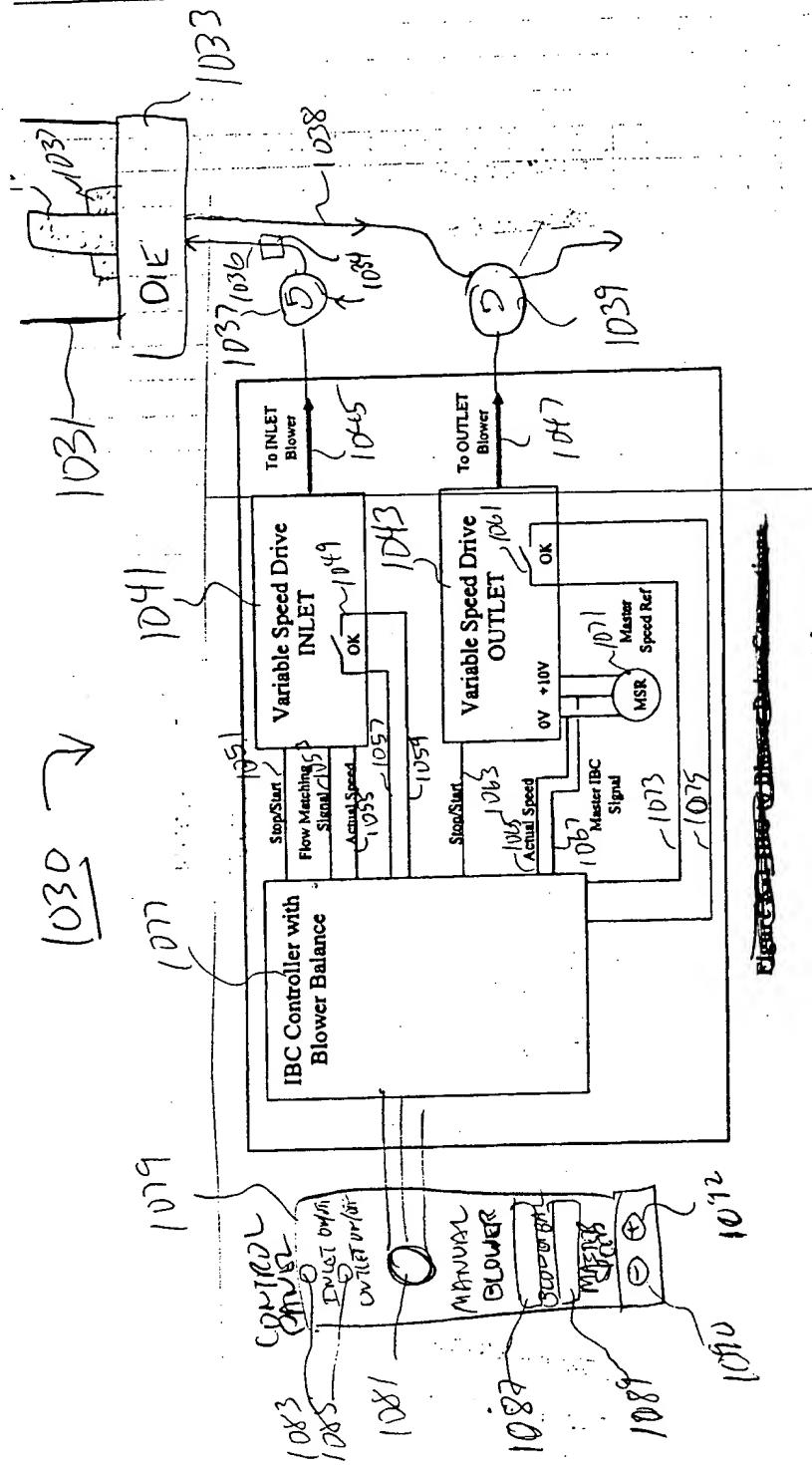


FIGURE 37 D

Client _____
File No. _____
Sheet No. ____ of ____

PATENT SKETCH FORM

Attorney _____

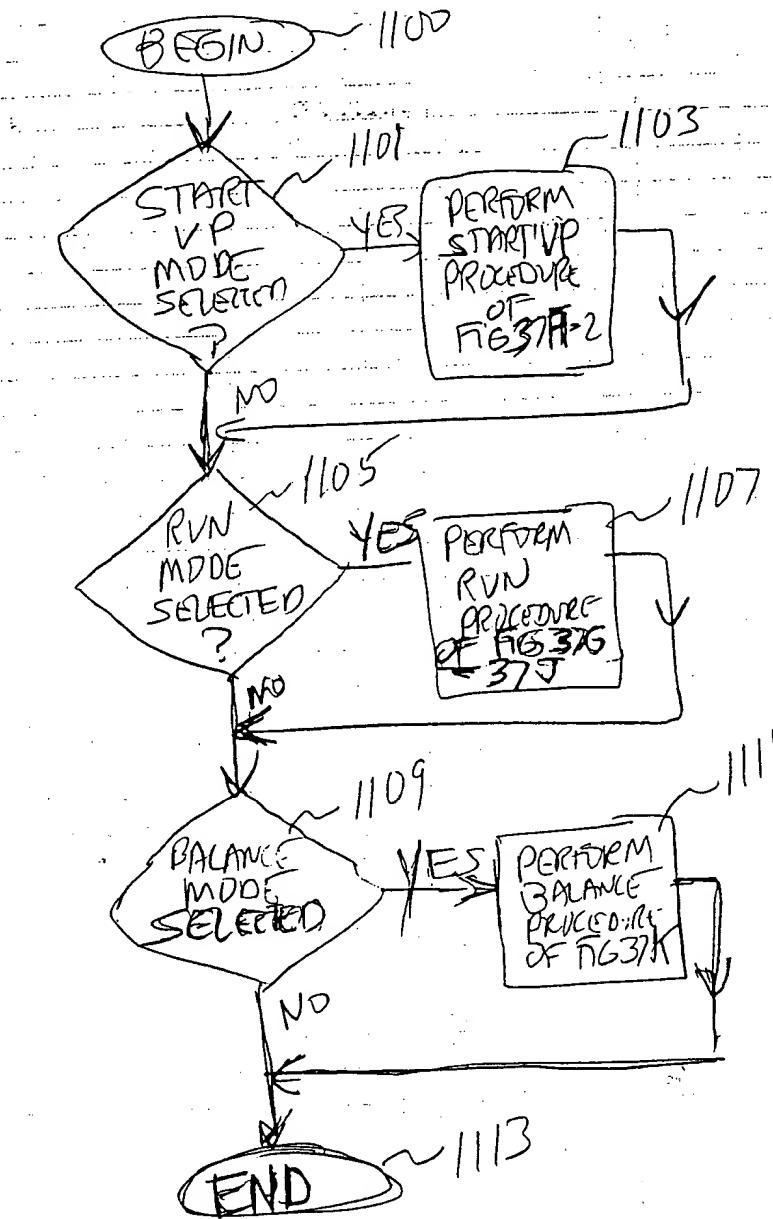


FIGURE 37 E

PATENT SKETCH FORM

Attorney _____

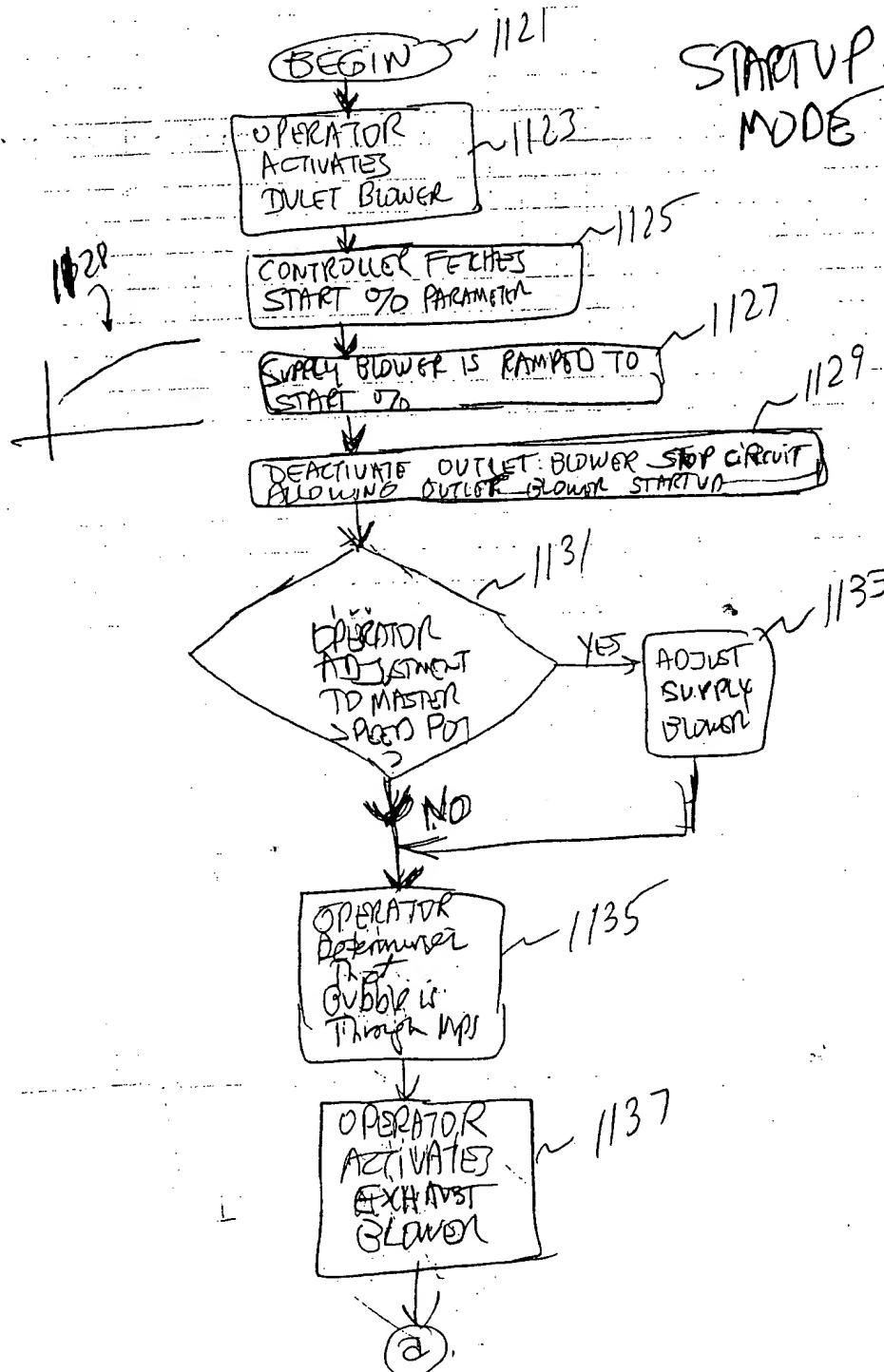
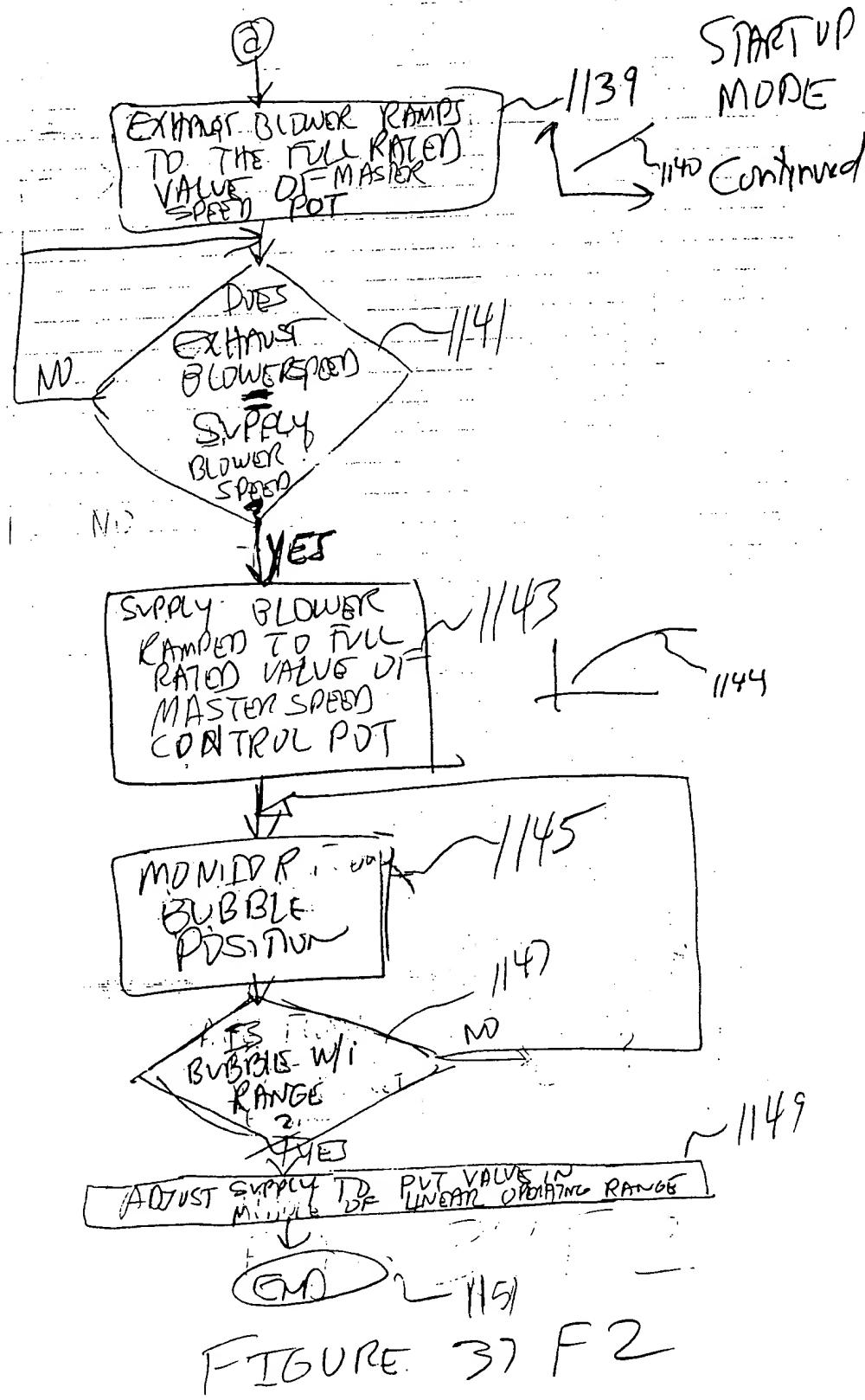


FIG 37 F1

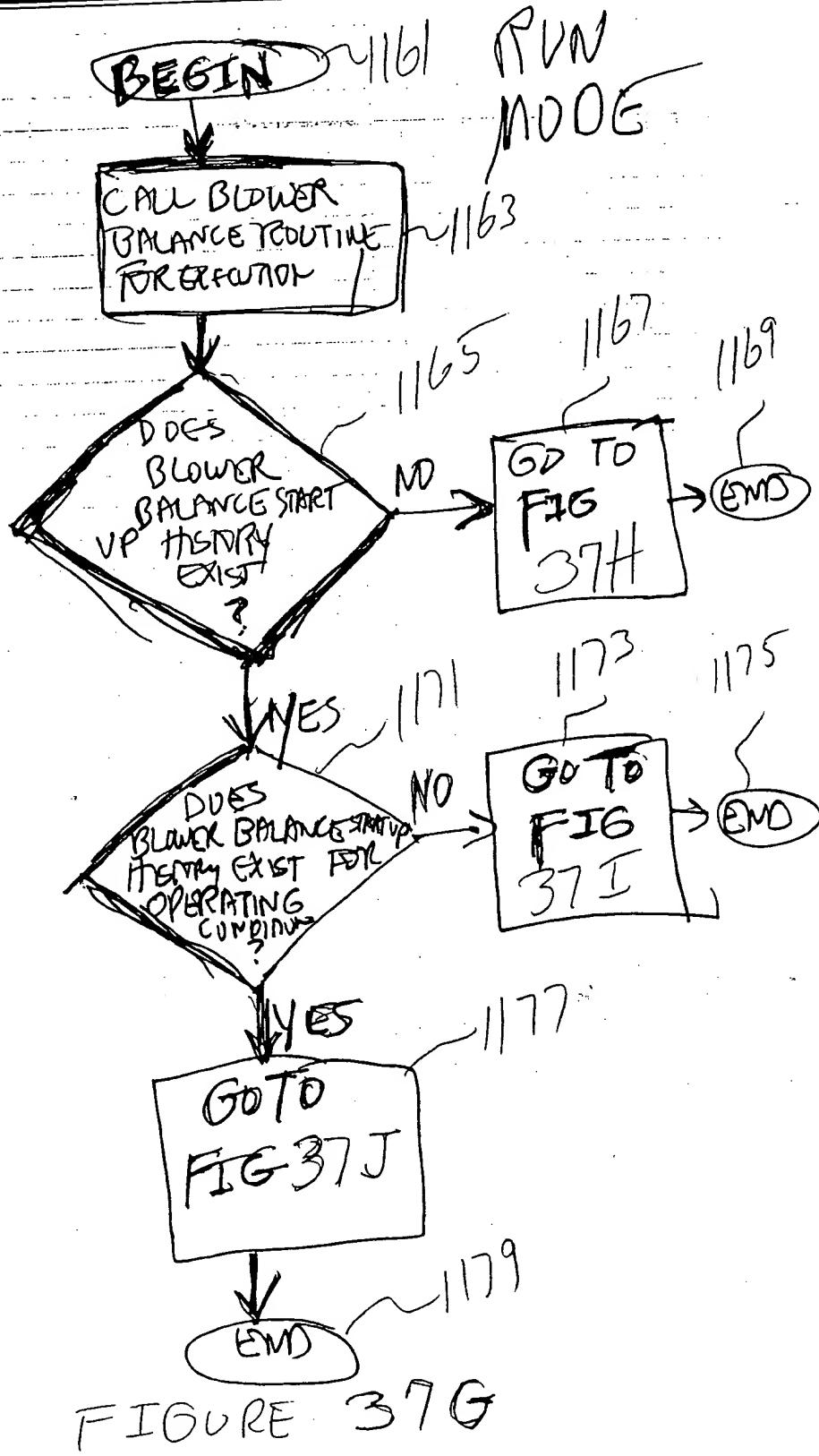
PATENT SKETCH FORM

Attorney _____



PATENT SKETCH FORM

Attorney _____



PATENT SKETCH FORM

Attorney _____

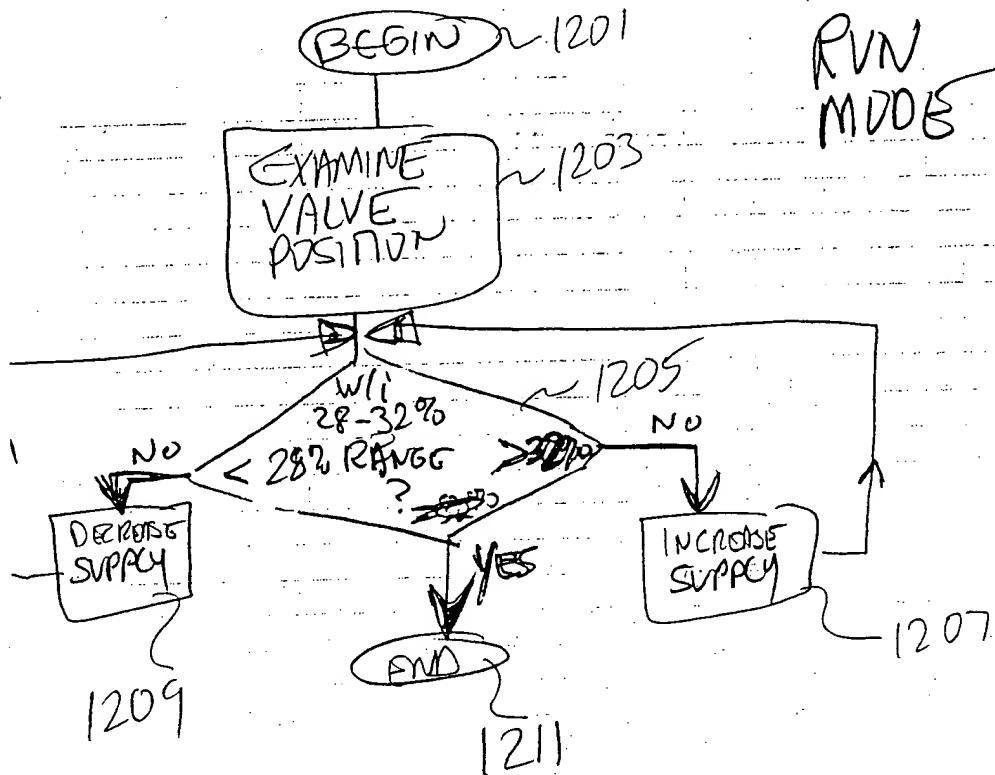


FIGURE 3TH

PATENT SKETCH FORM

Attorney _____

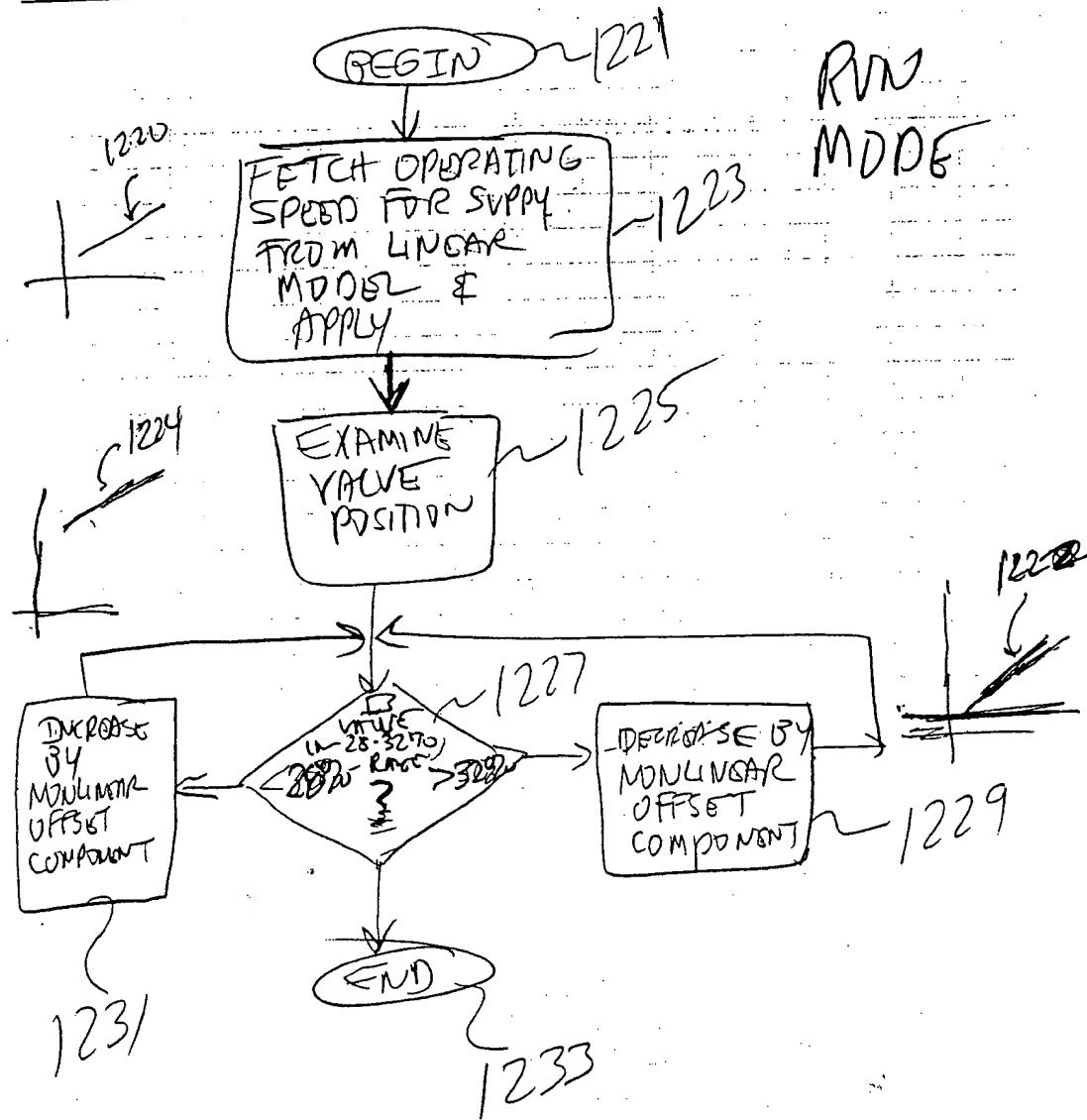
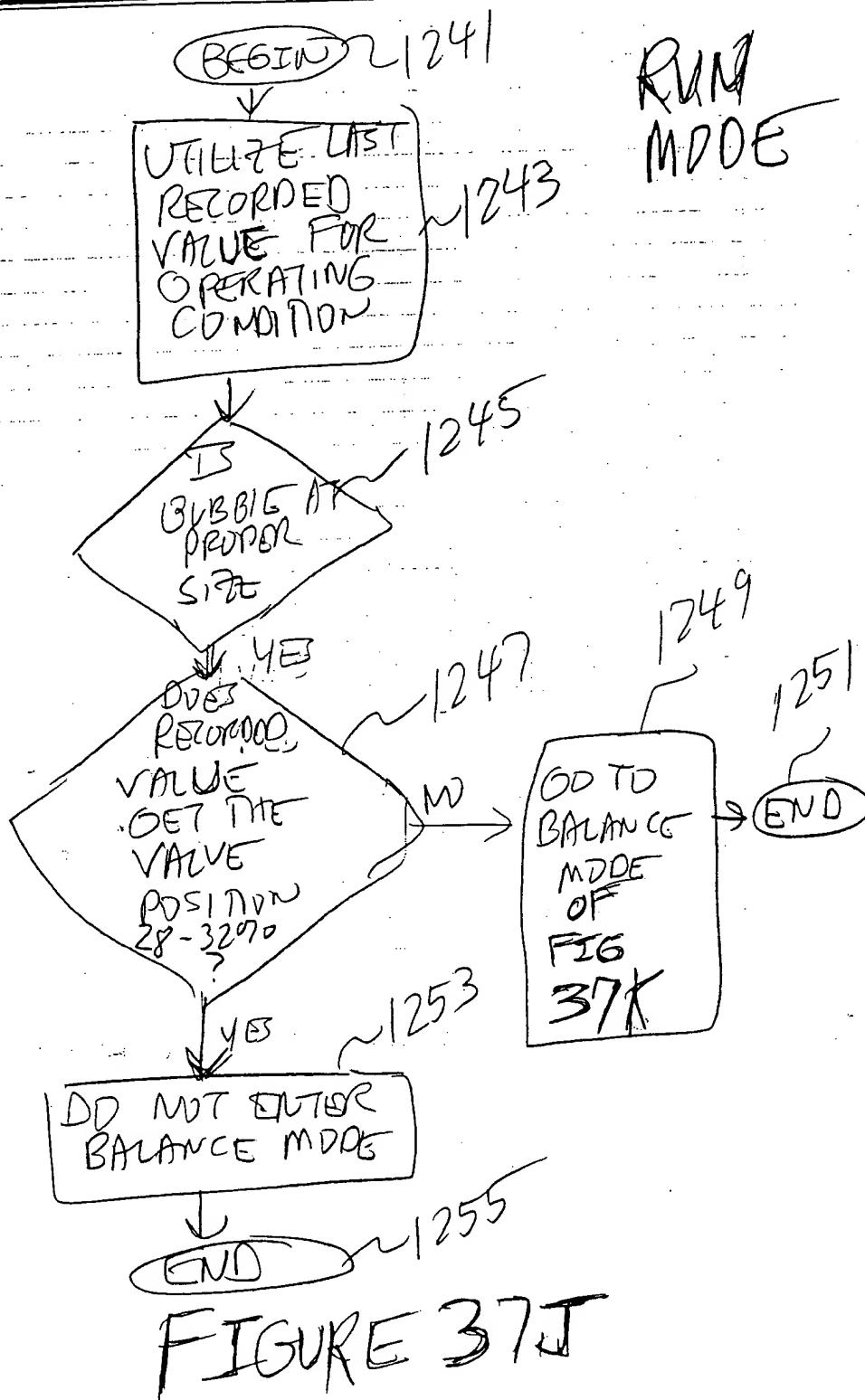


FIGURE 37 I

PATENT SKETCH FORM

Attorney _____



PATENT SKETCH FORM

Attorney _____

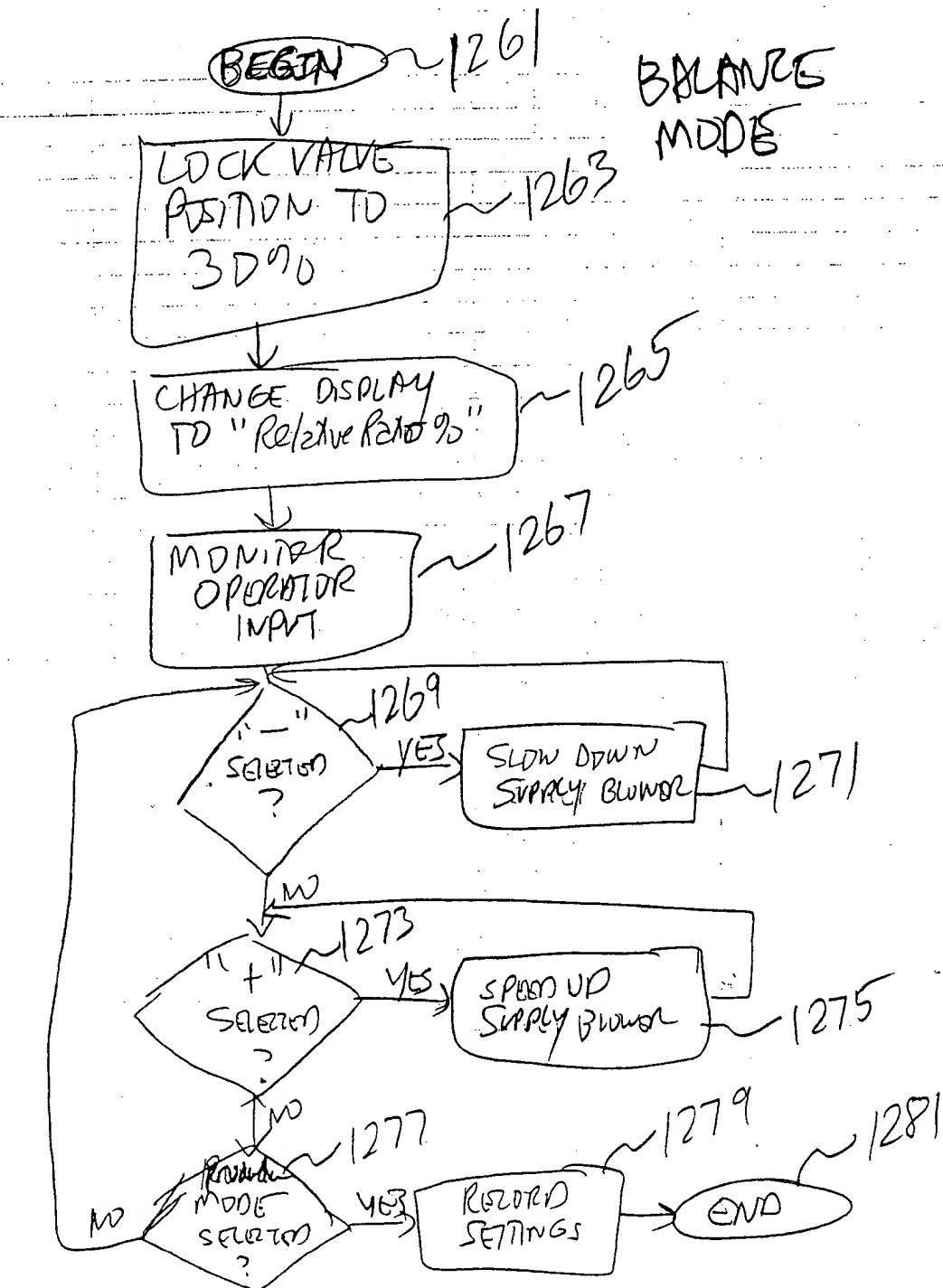


FIGURE 37K

PATENT SKETCH FORM

Attorney _____

1301	1303	1305
MASTER SPEED POT SETTING	(SWEET) SPEED	REFERENCE VOLTS
A 90	AC	BD
B 90	AG	BF
:		
Z 0/0	AM	BX

FIGURE 37L

PATENT SKETCH FORM

Attorney _____

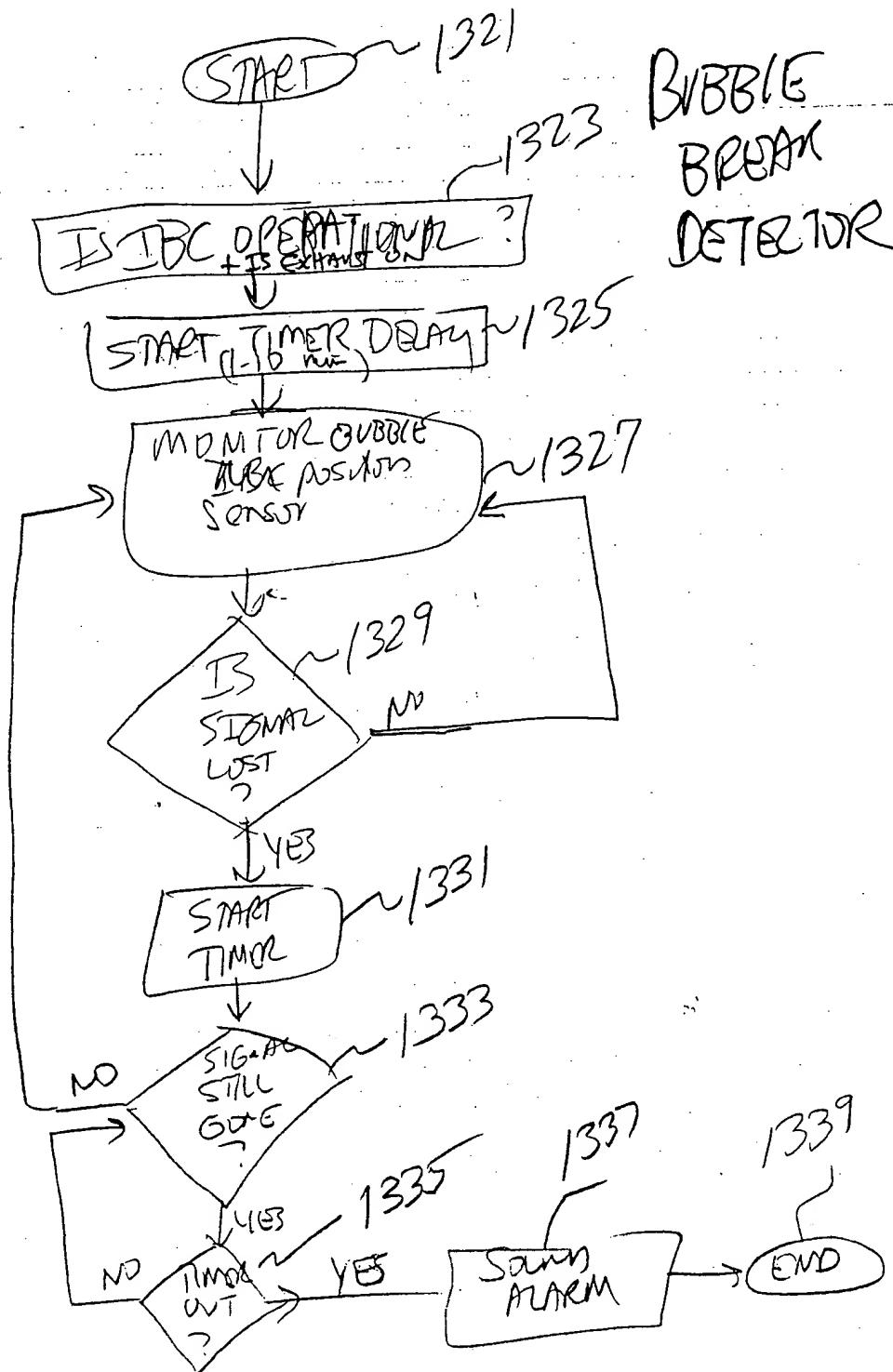
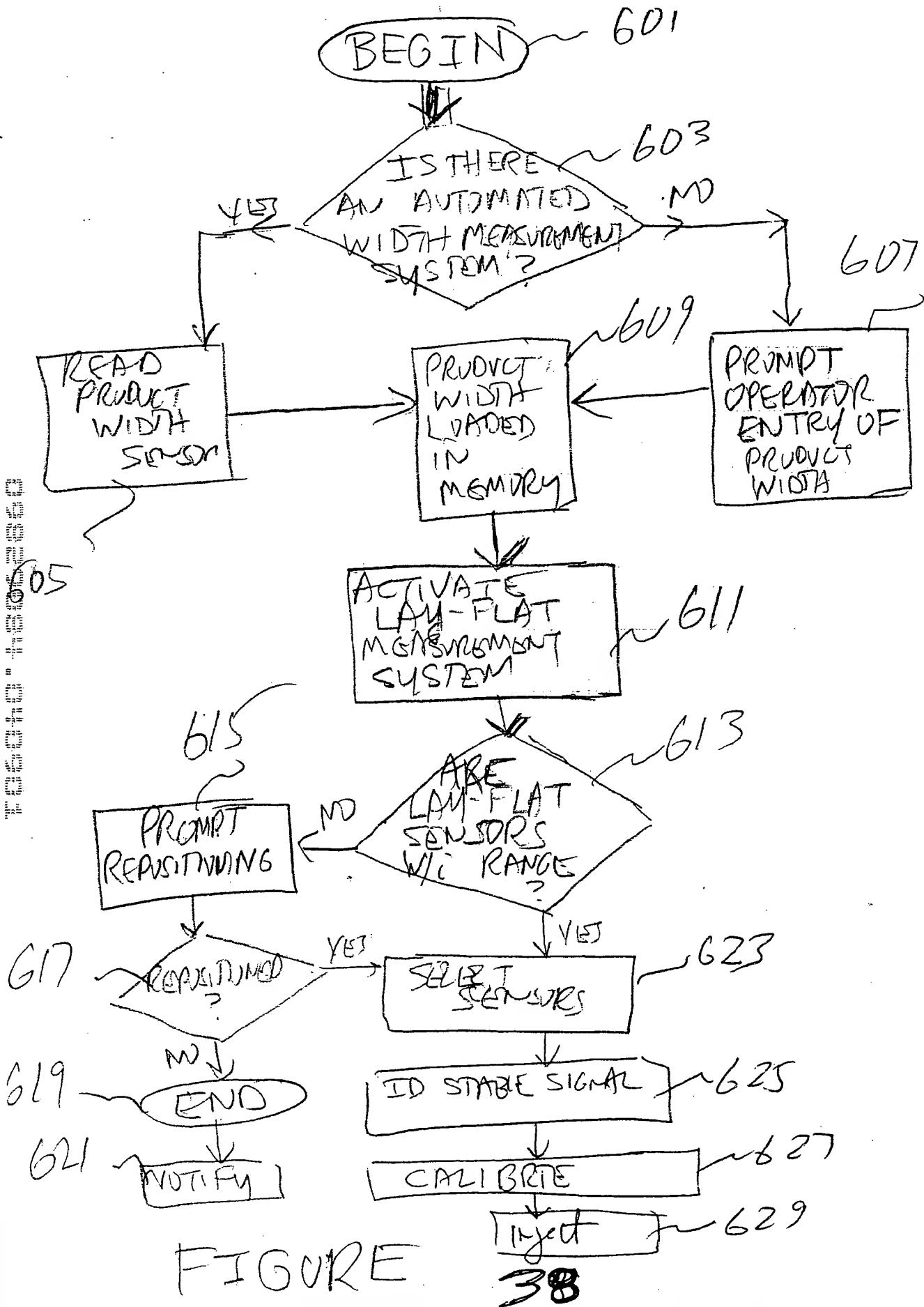
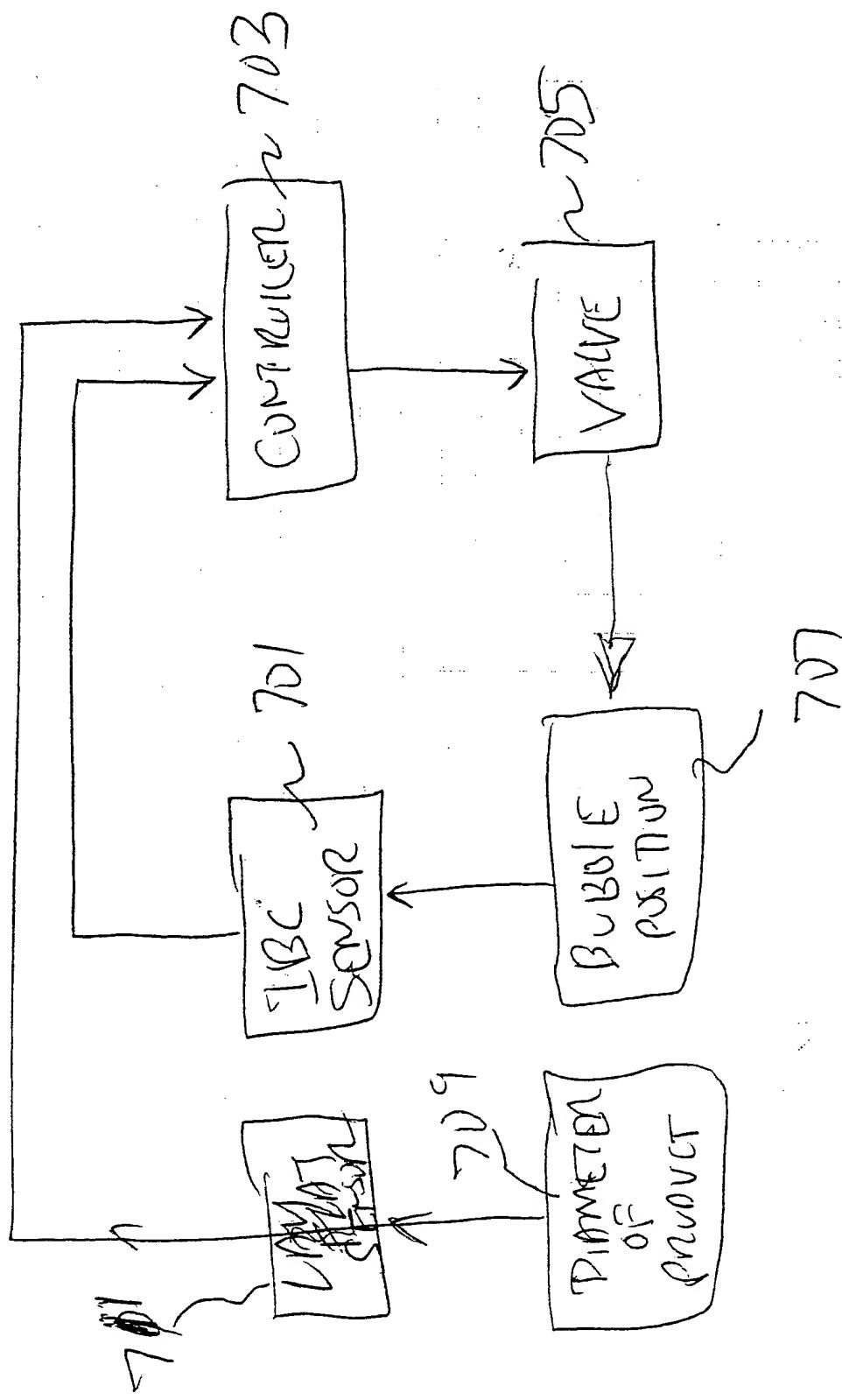


FIGURE 37M



39

F T CURE



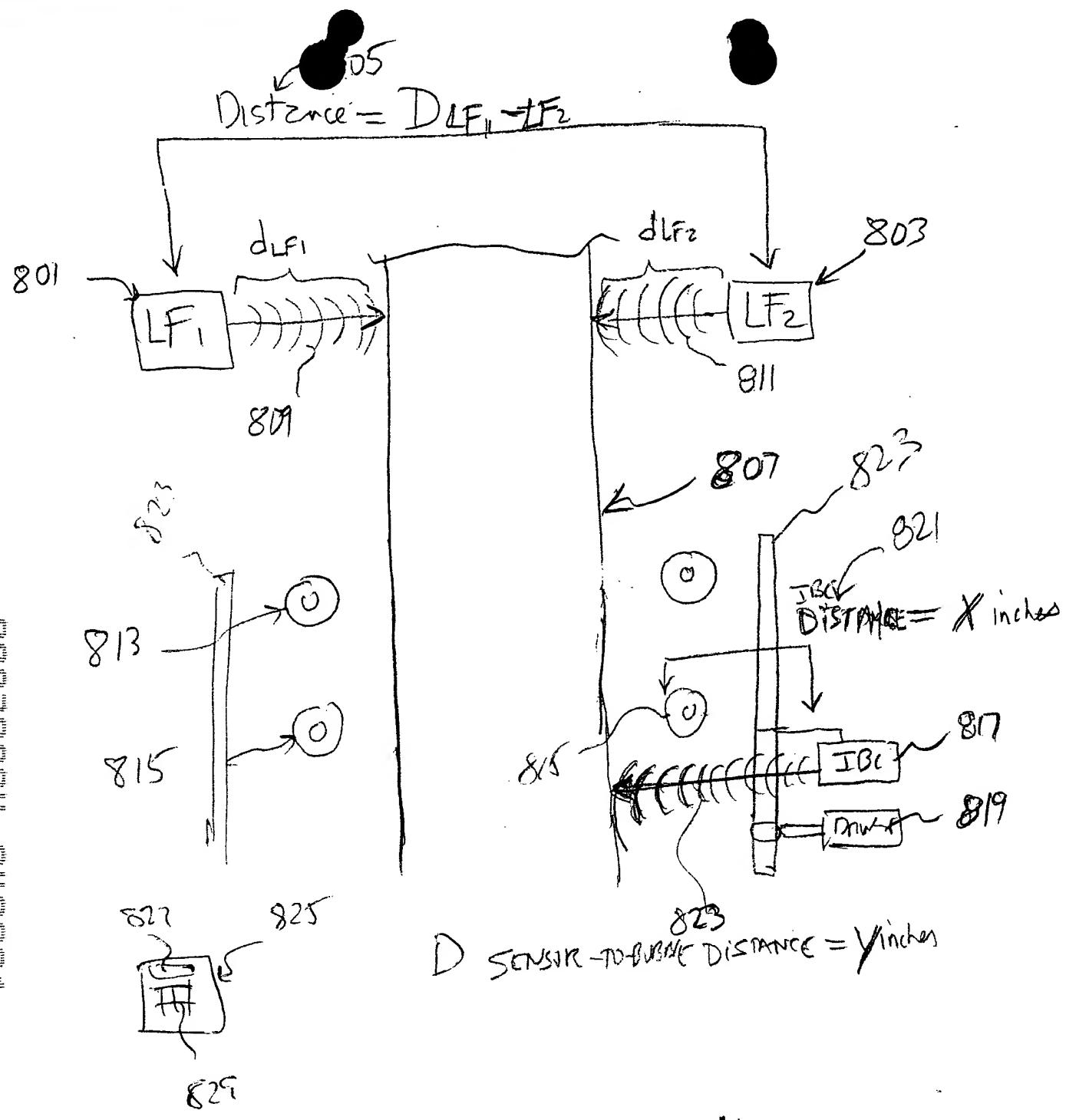


FIGURE 40

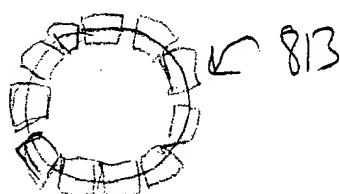


FIGURE 41

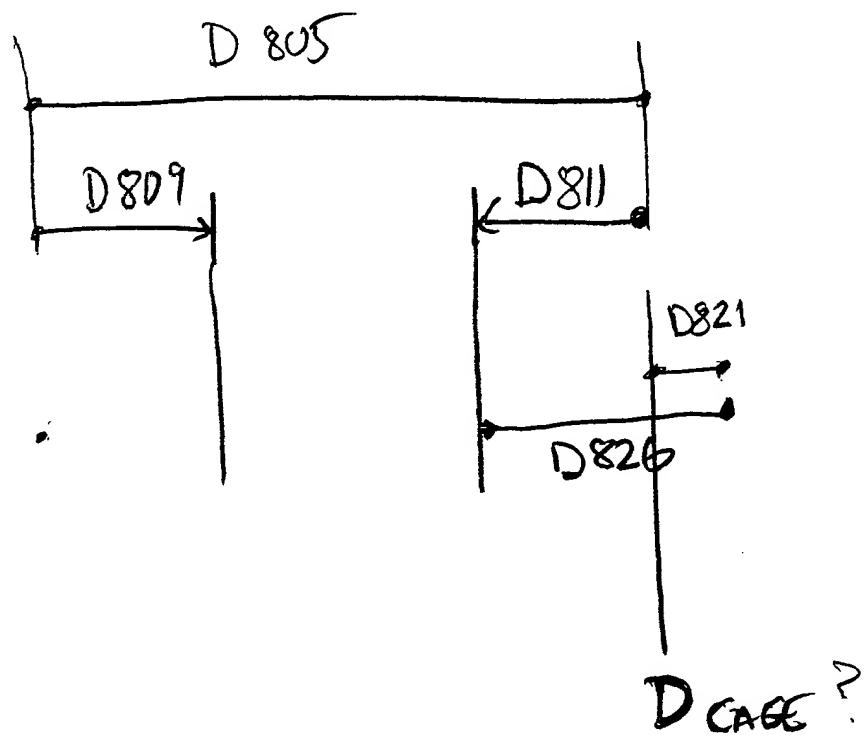


FIG 42

$$D_{CAGE} = (D805 - D809 - D811) \\ + (D826 - D821)$$

FORWARD MODE

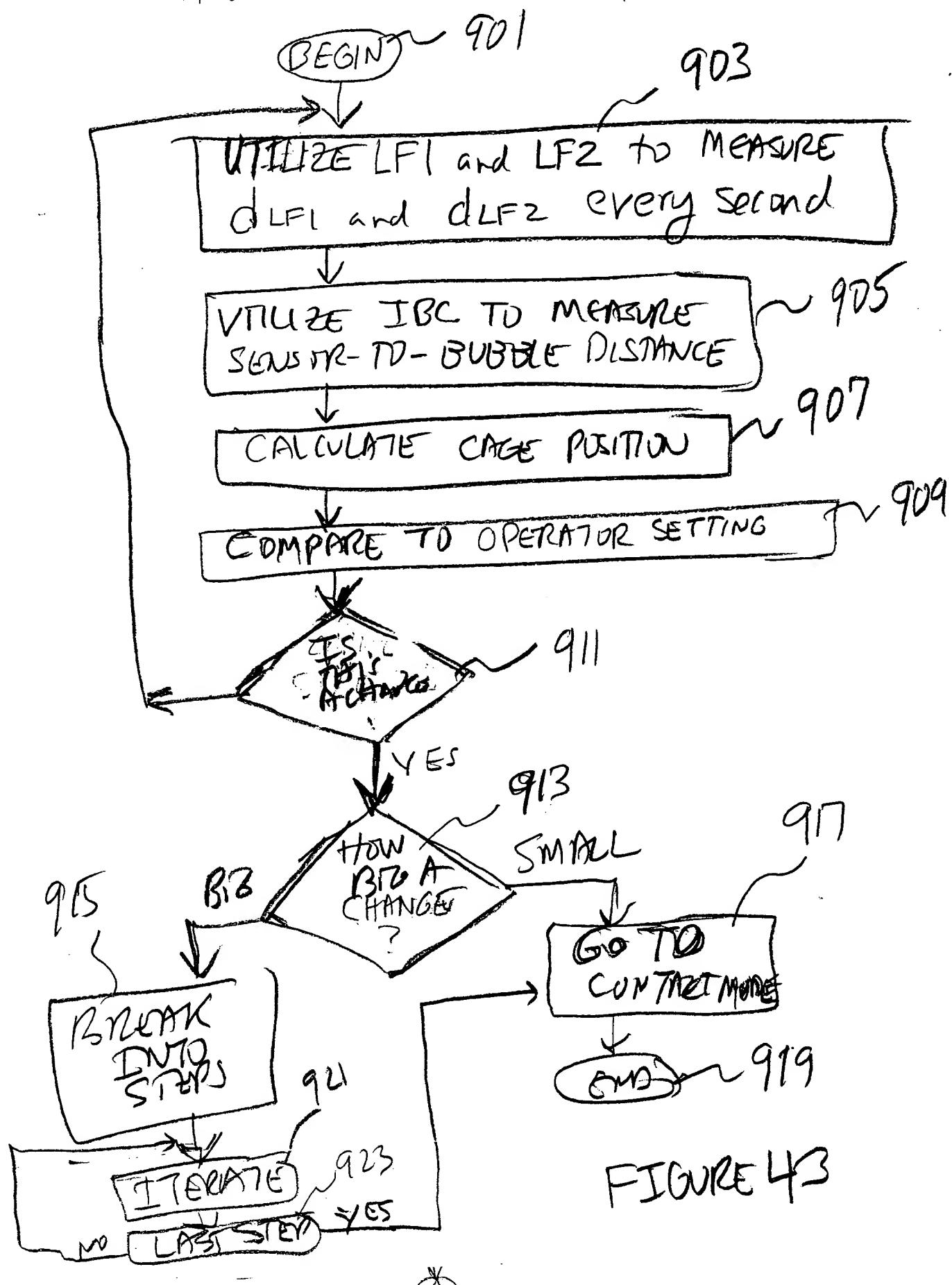


FIGURE 43

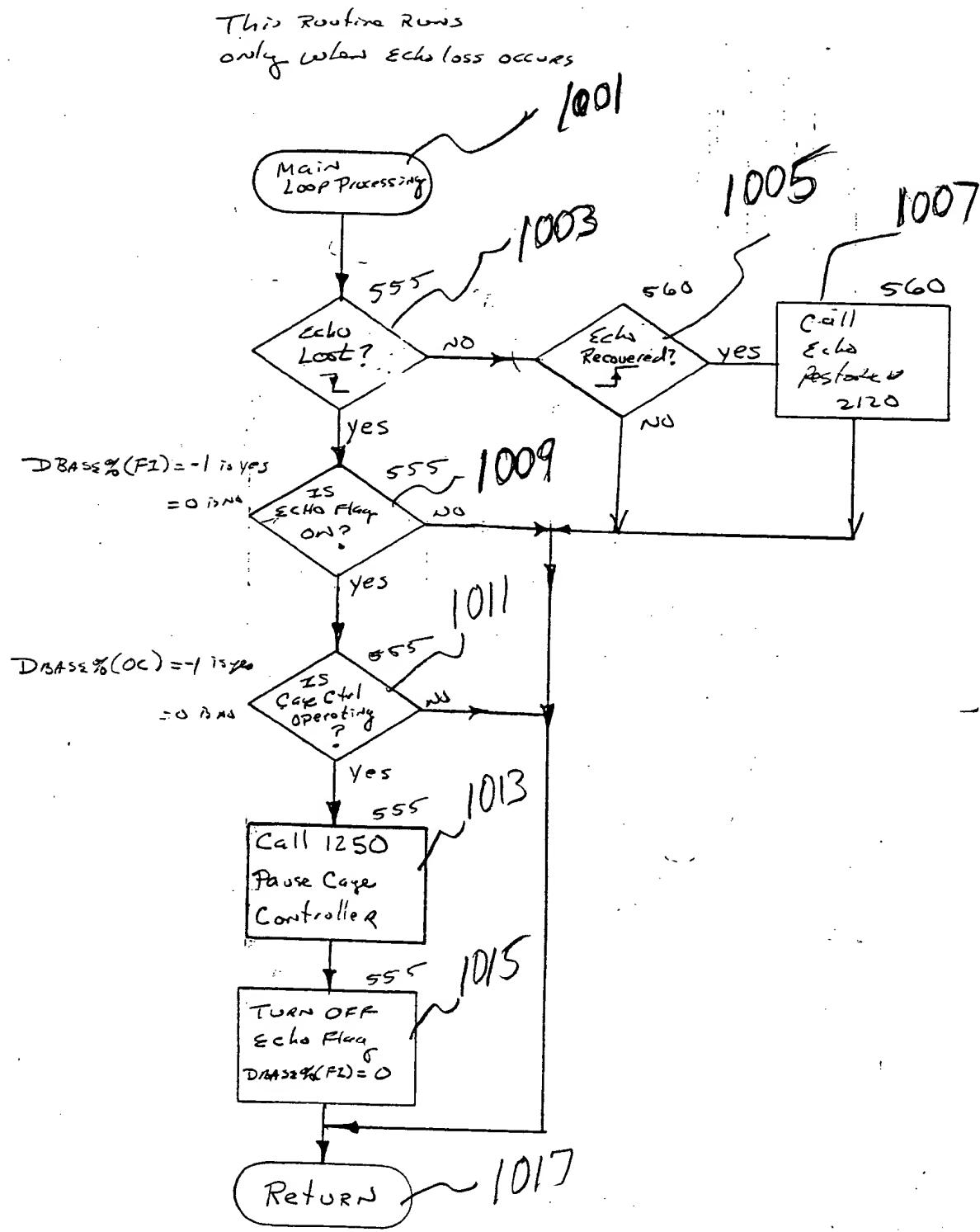


FIGURE 44 A

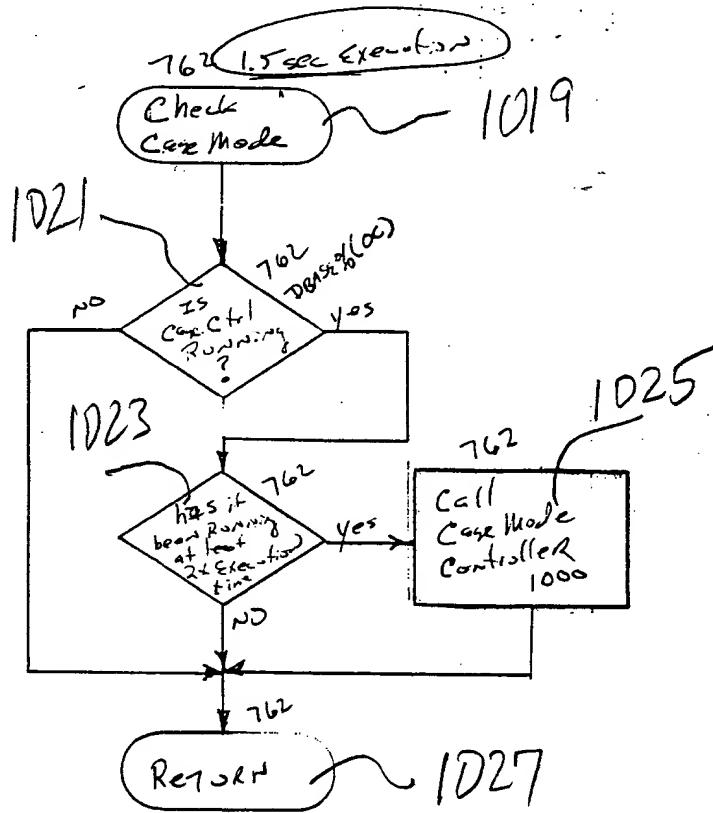


FIGURE 44B

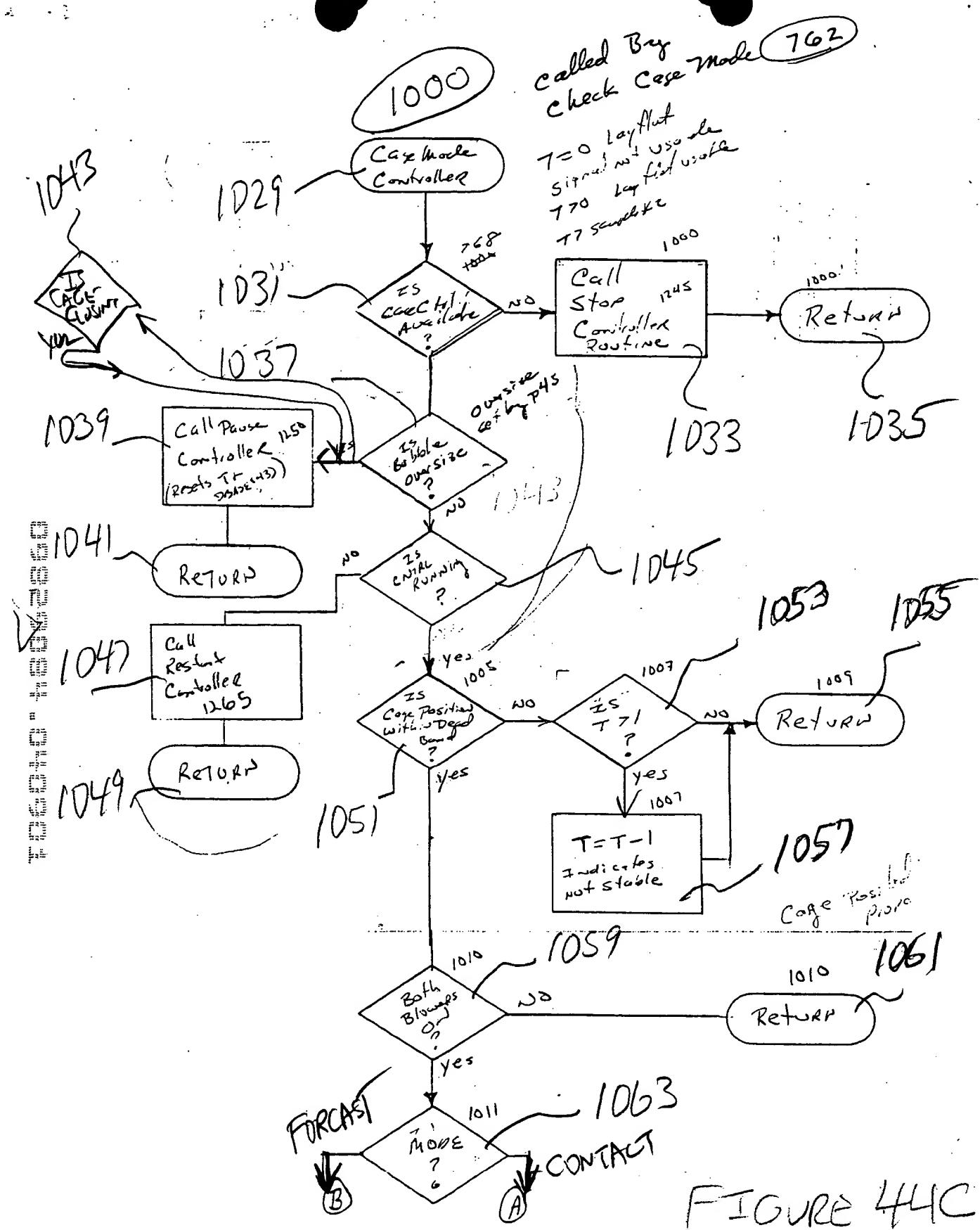


FIGURE 44C

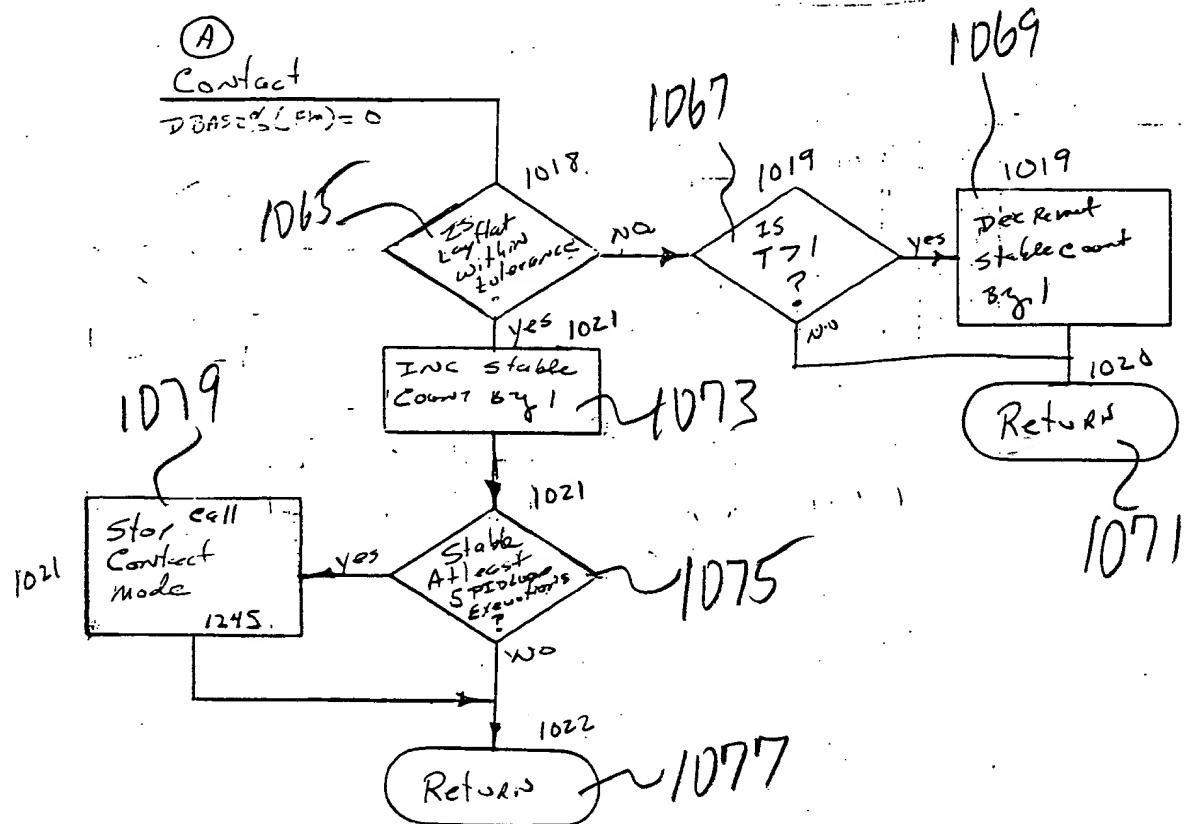
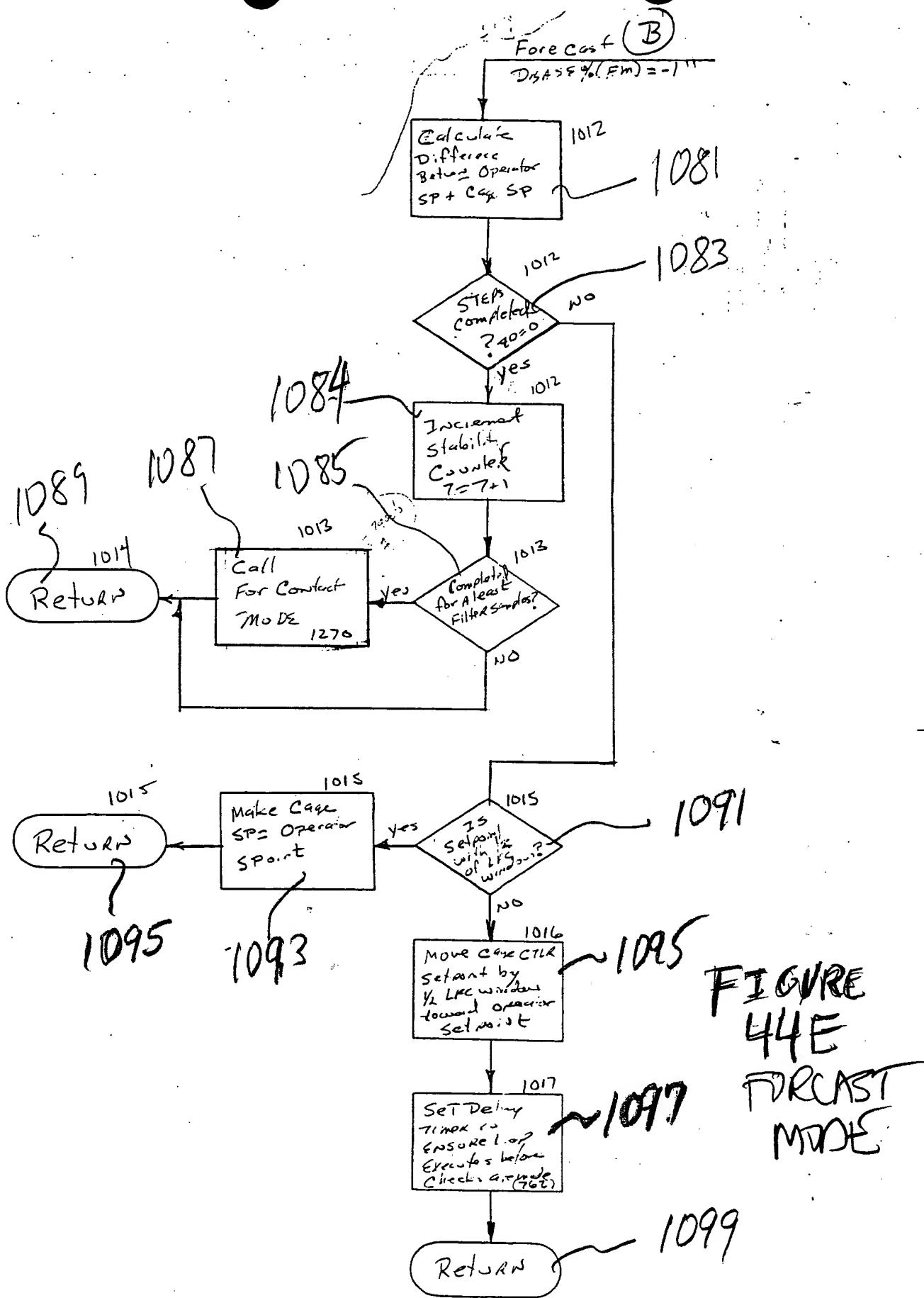


FIGURE 44 D

CONTACT MODE



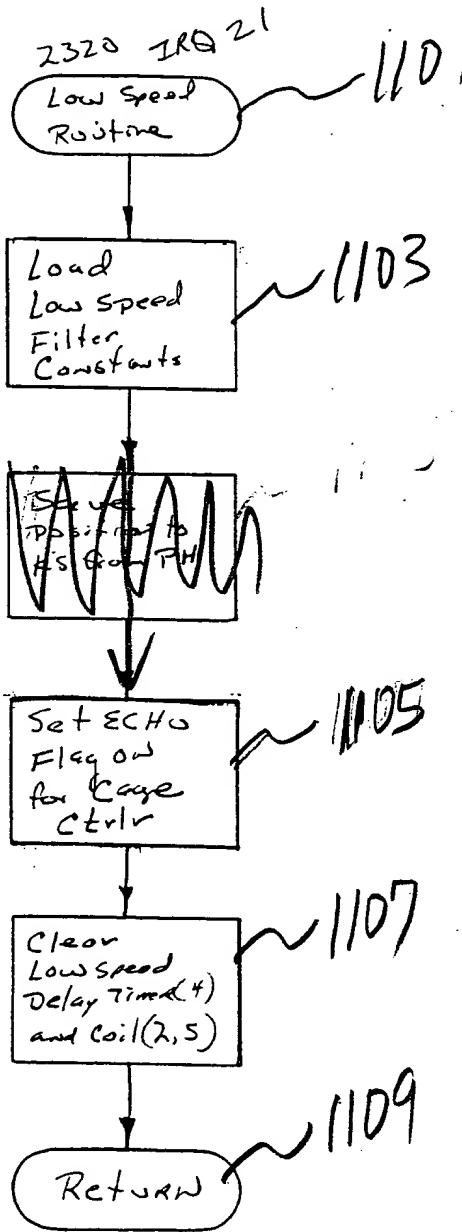


FIGURE 44 F

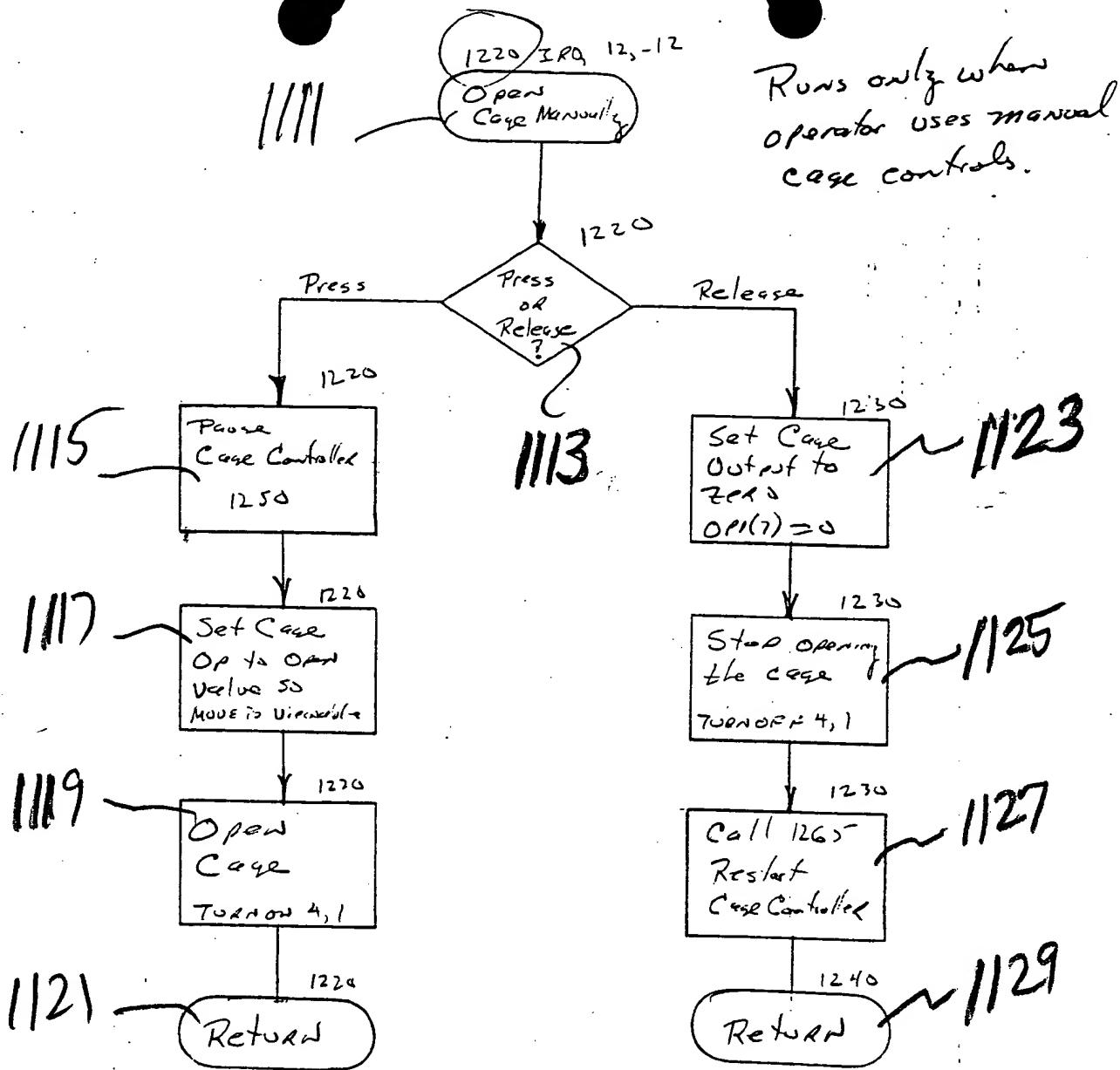


FIGURE 44G

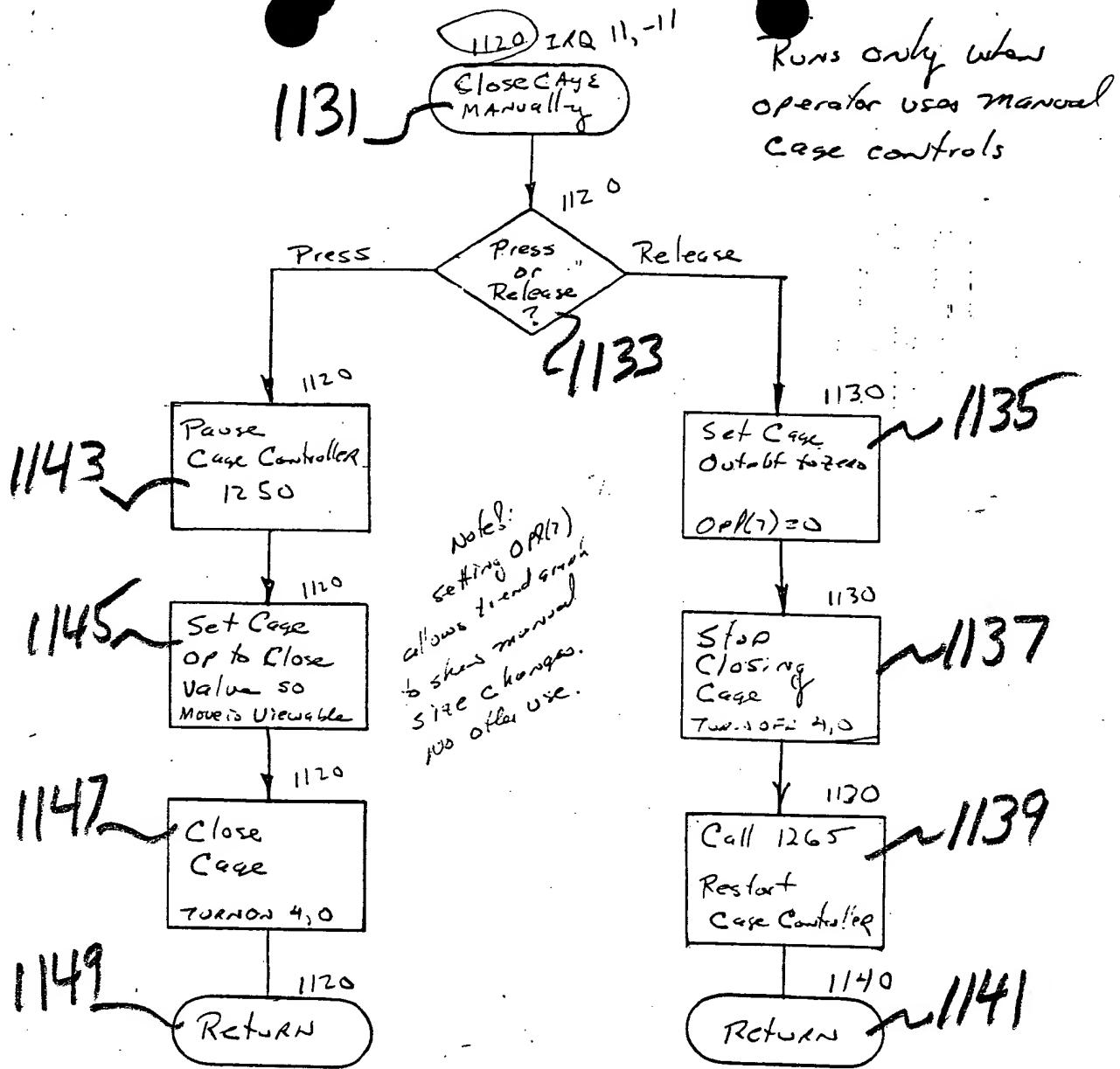


FIGURE 44 H

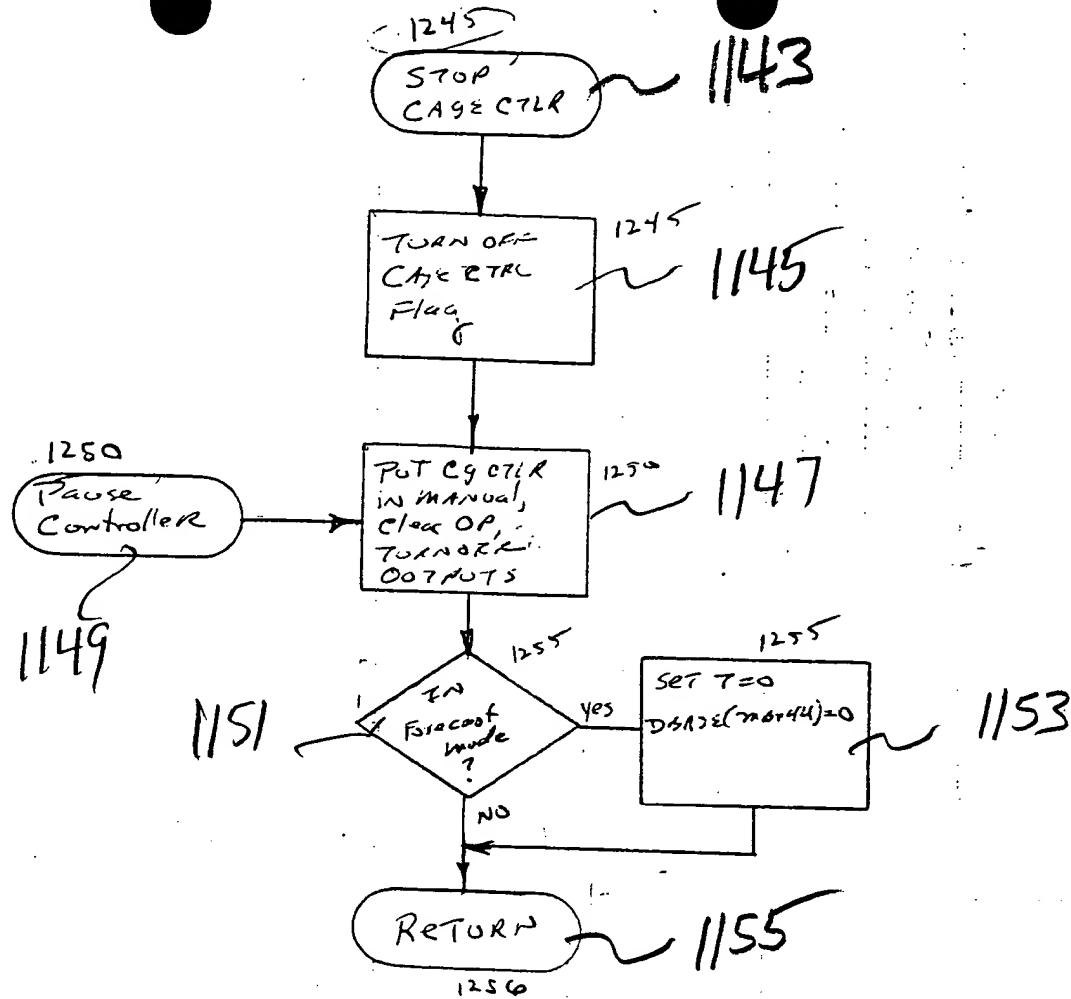


FIGURE 44 I

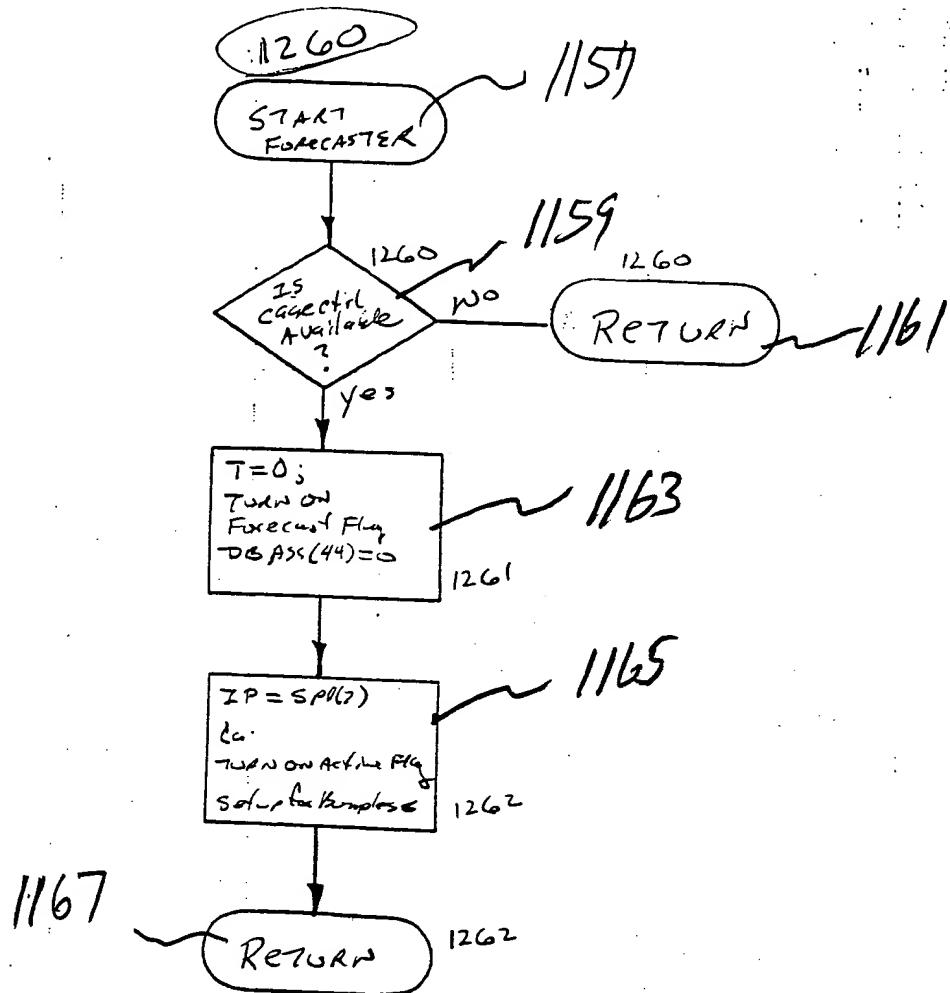


FIGURE 44J

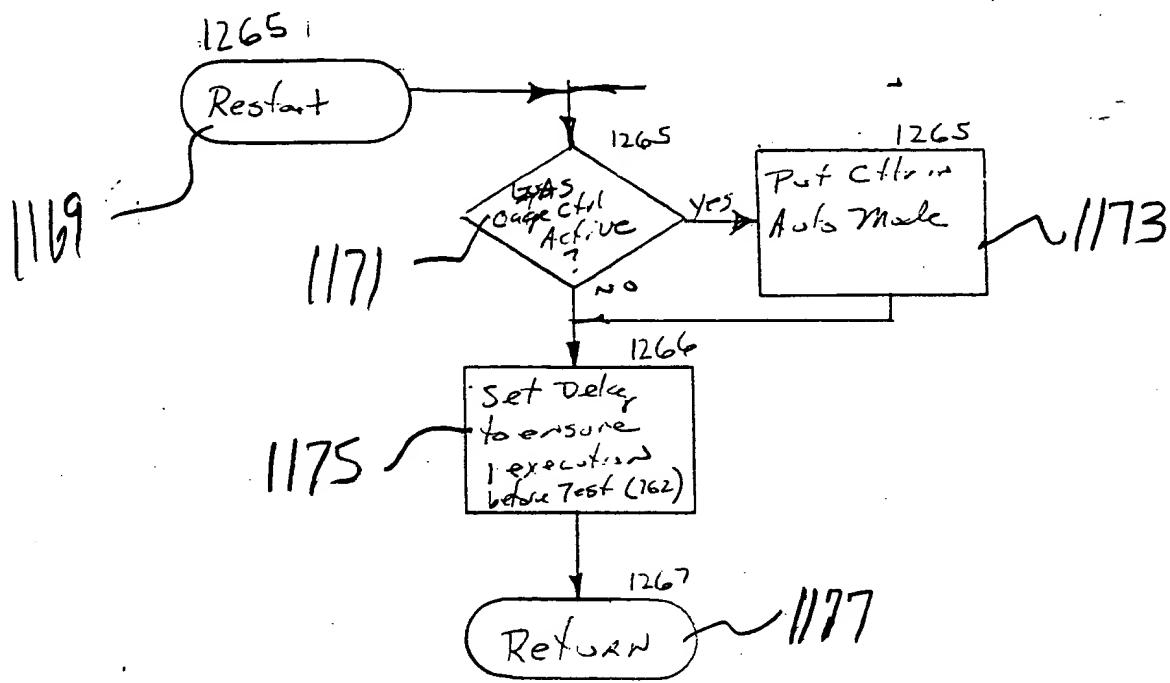


FIGURE 44K

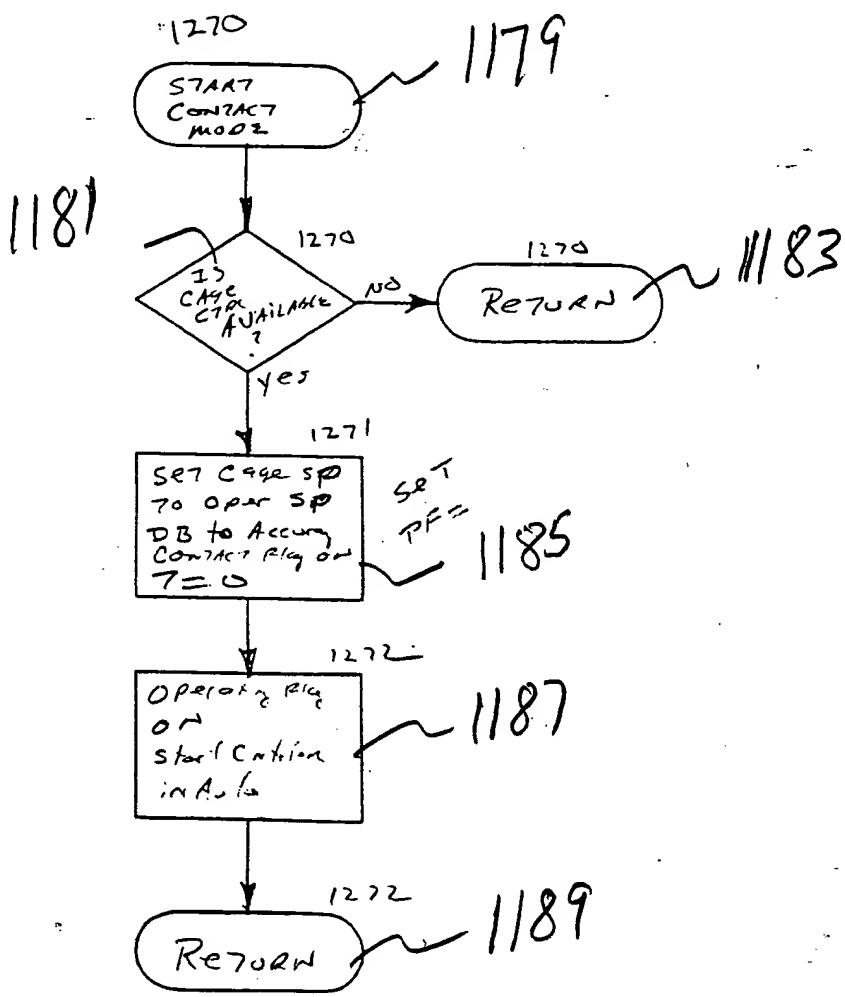


FIGURE 44 L

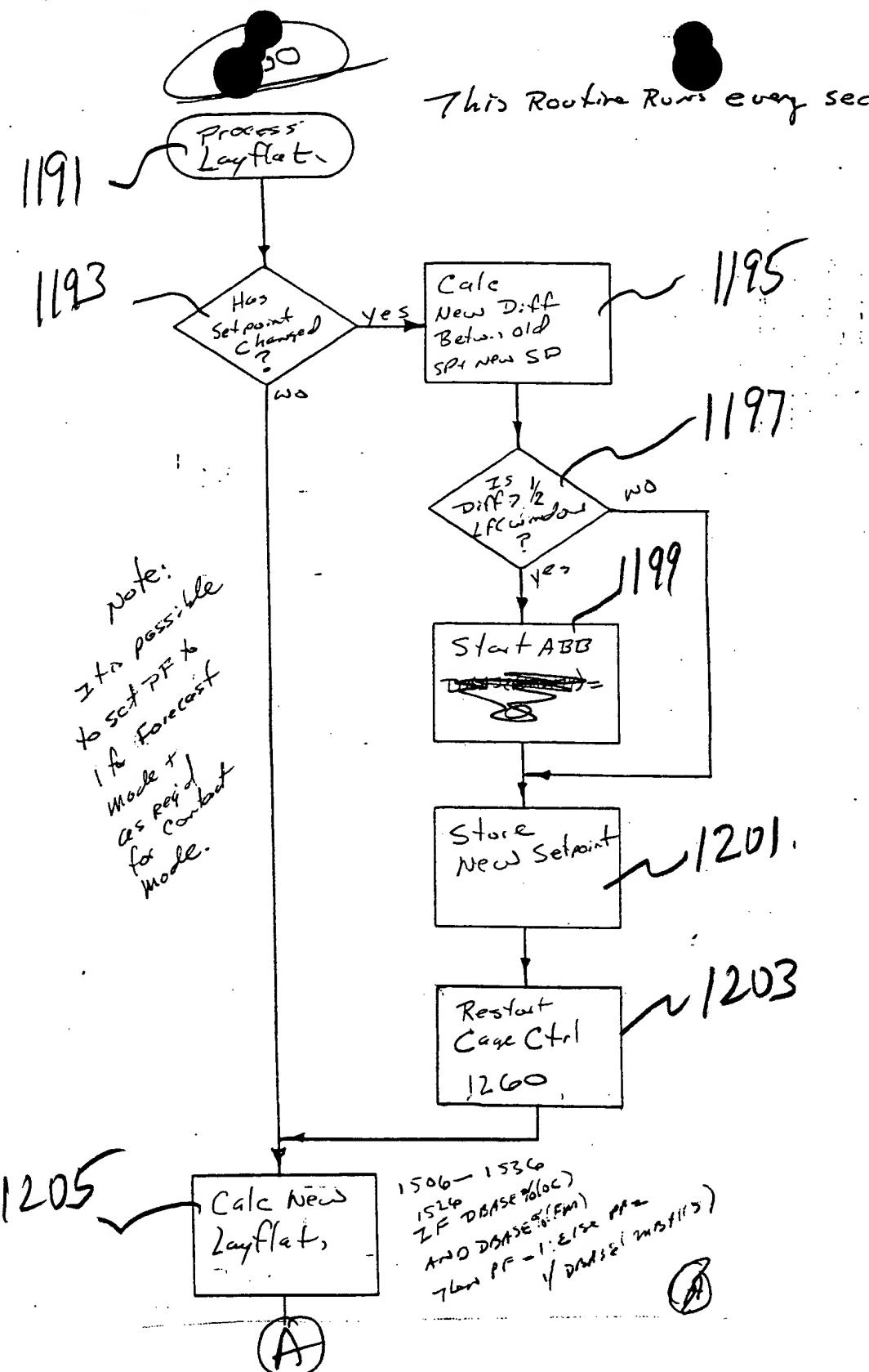


FIGURE 44 M

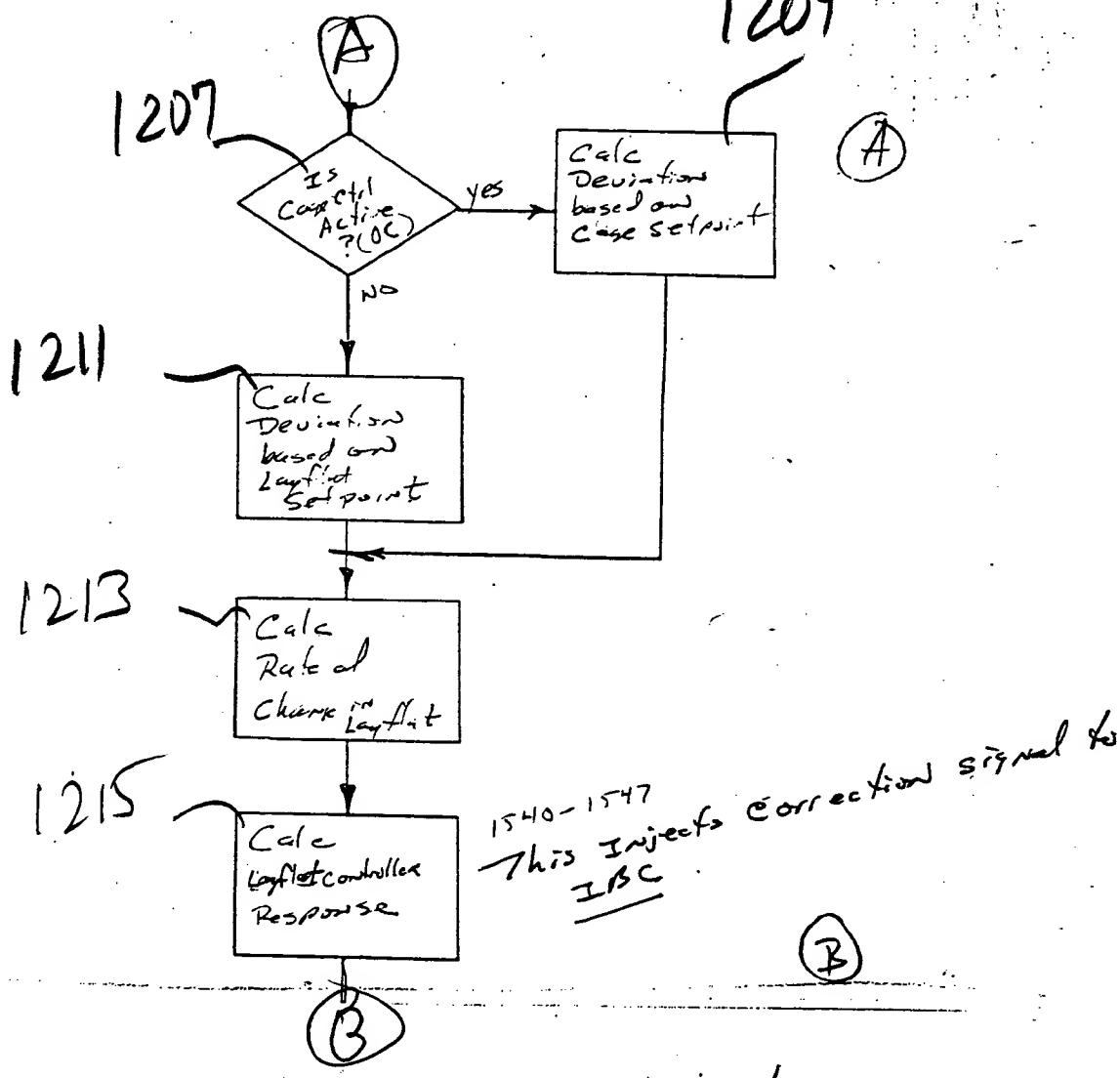
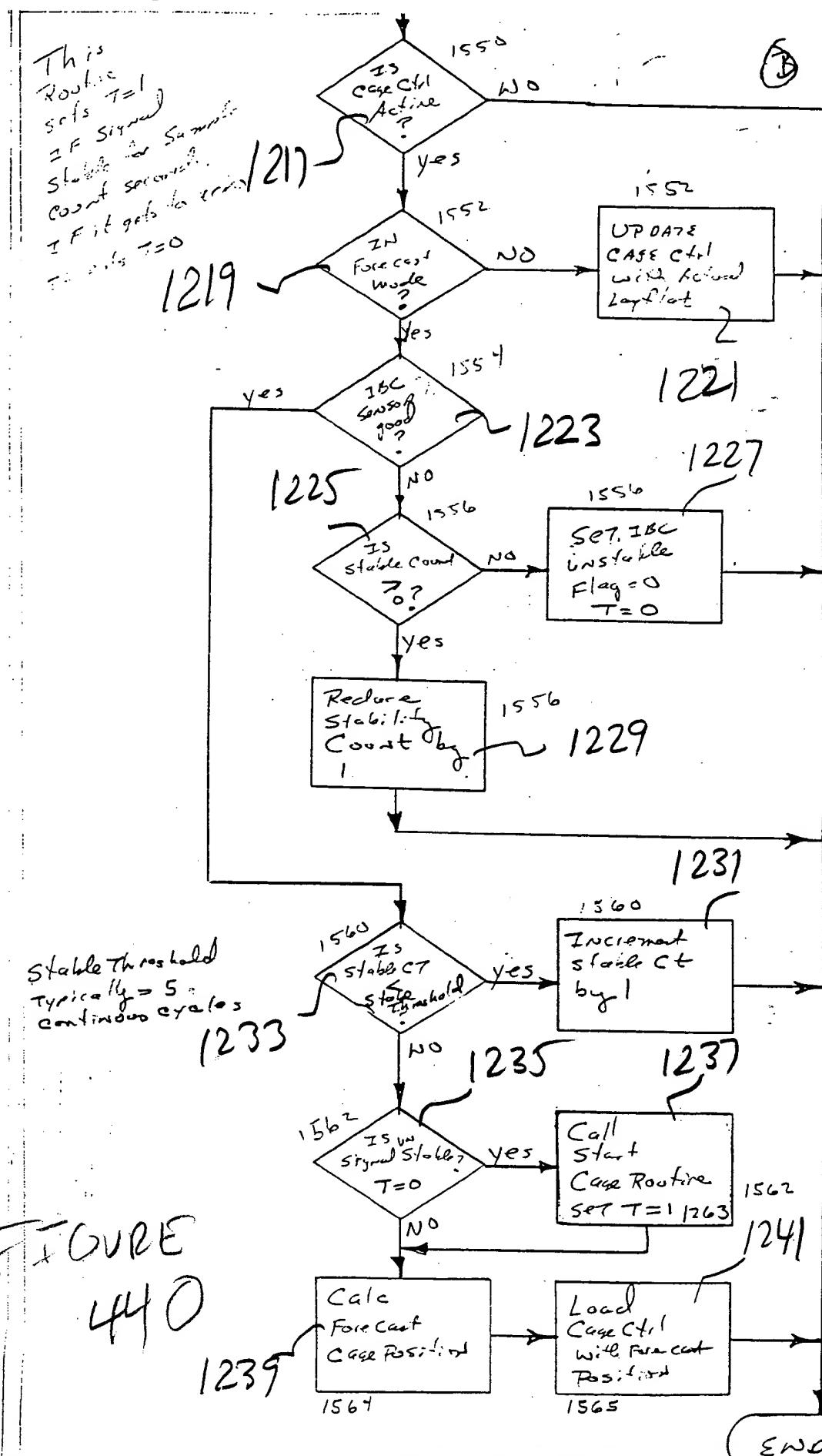


FIGURE 44N



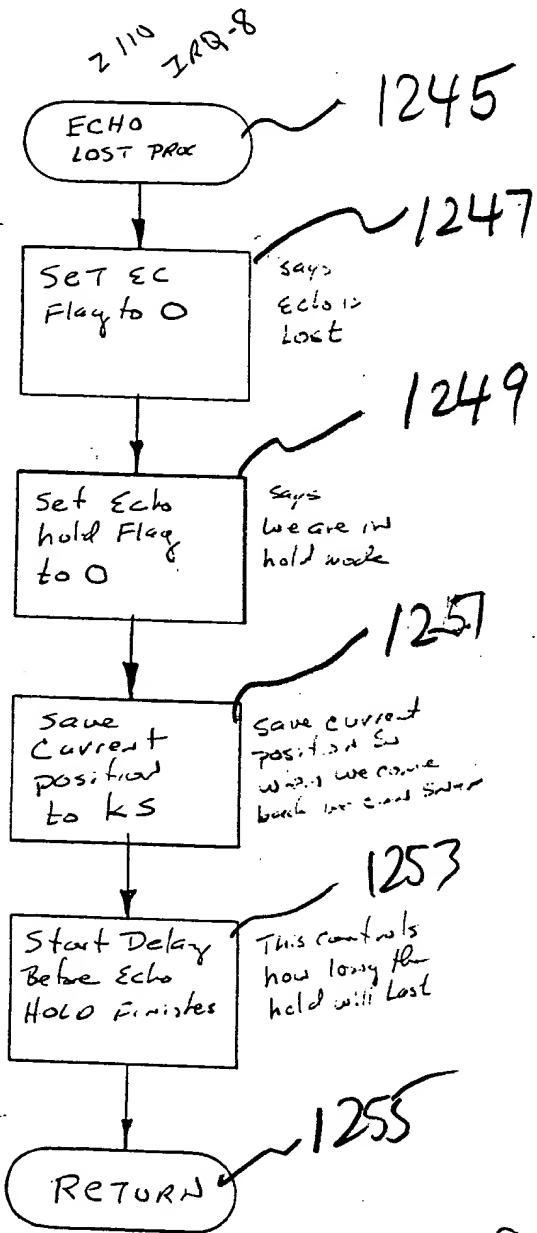


FIGURE 44 p

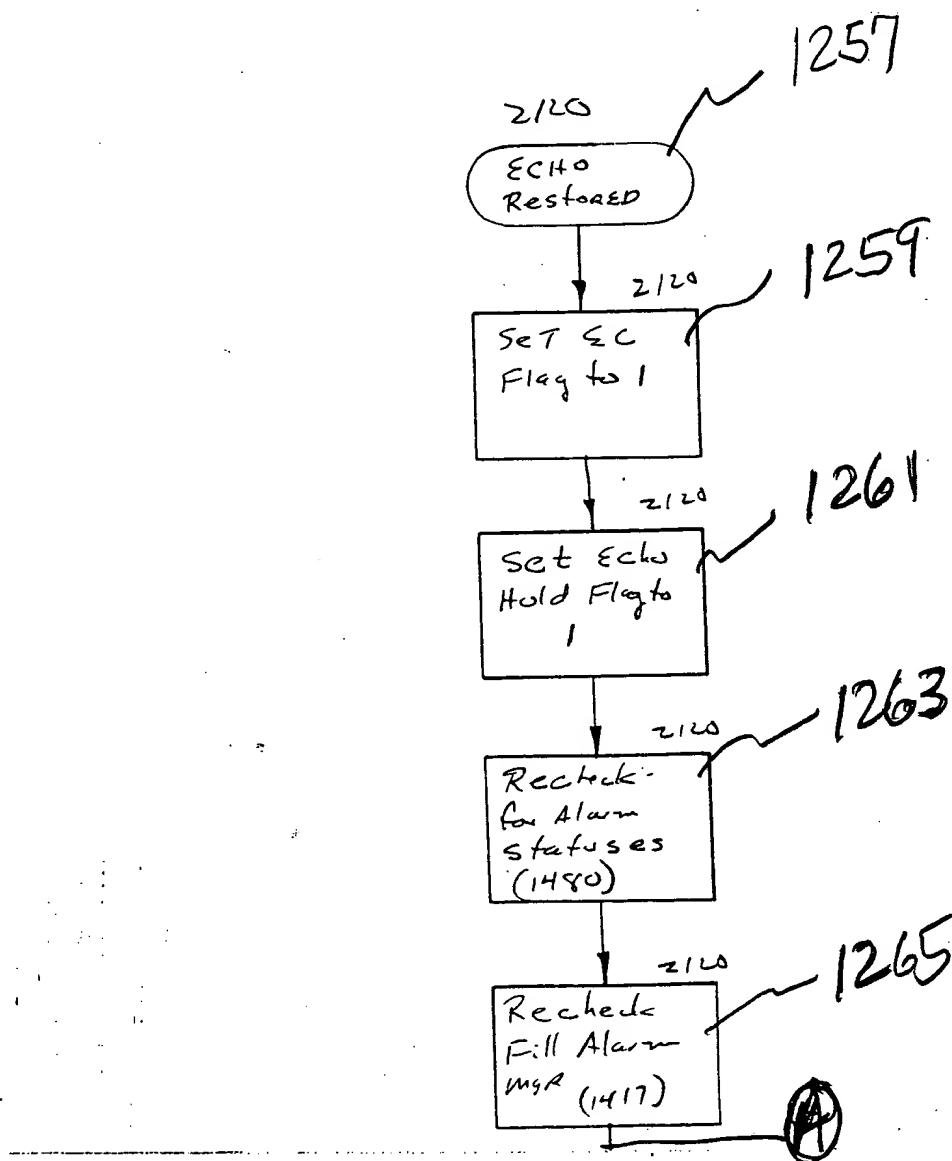


FIGURE 44Q

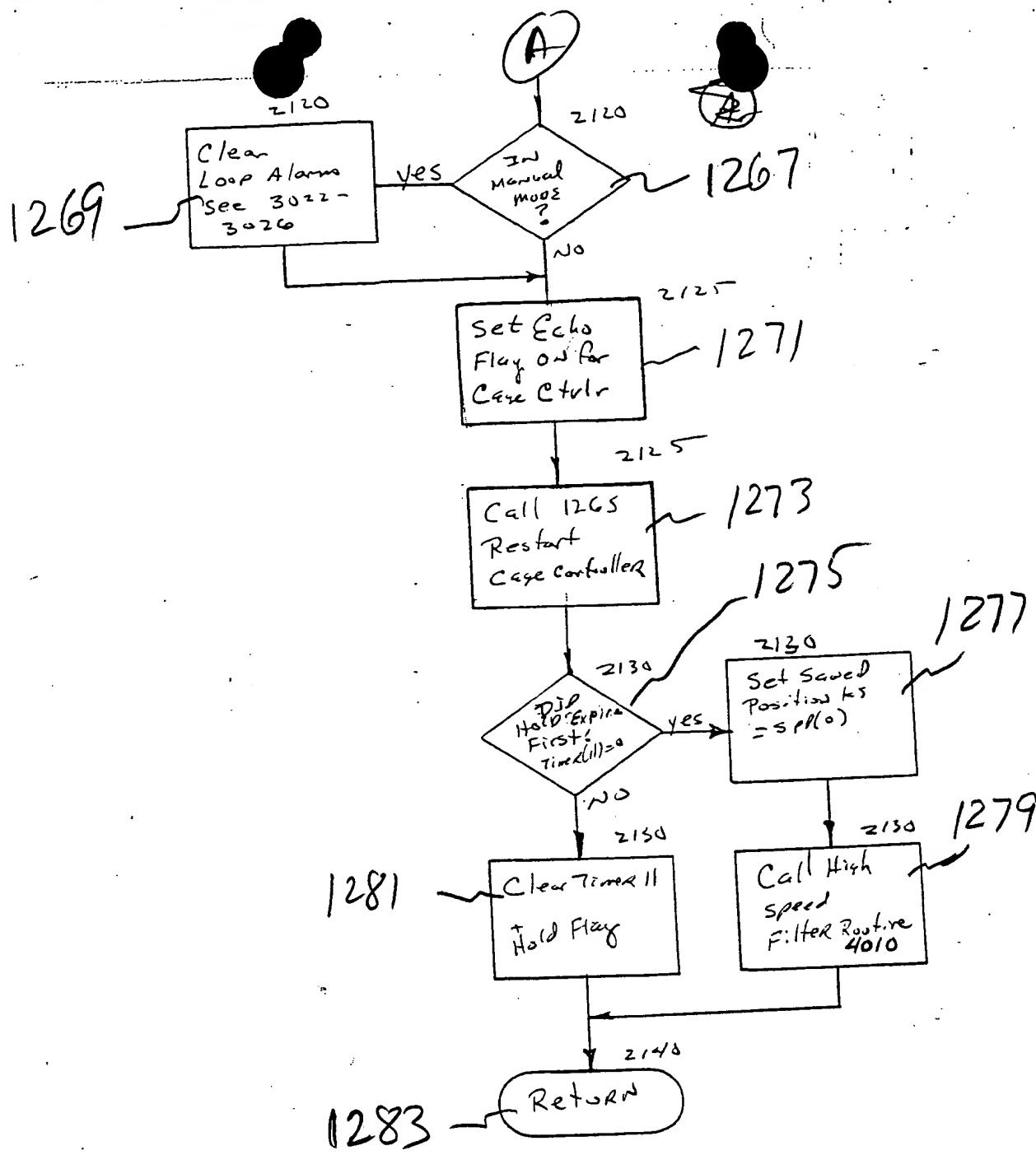


FIGURE 44R

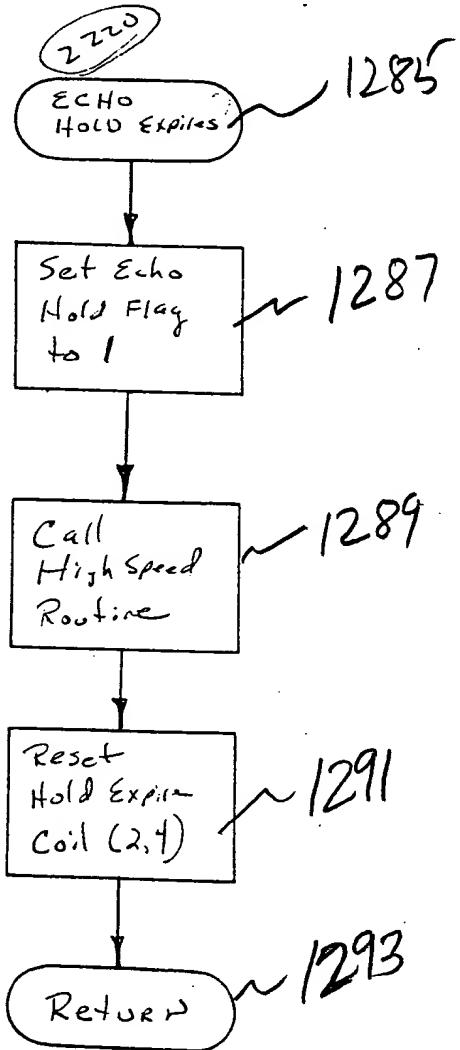


FIGURE H4S

Called By
21

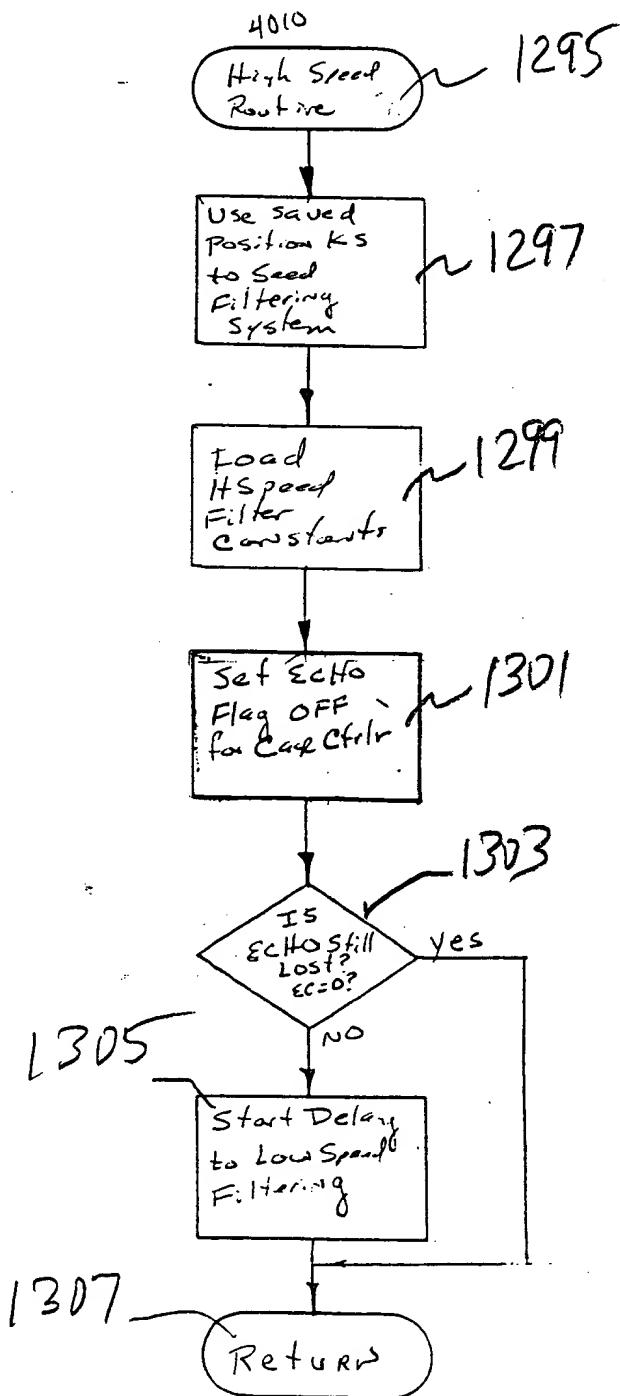


FIGURE 44 T

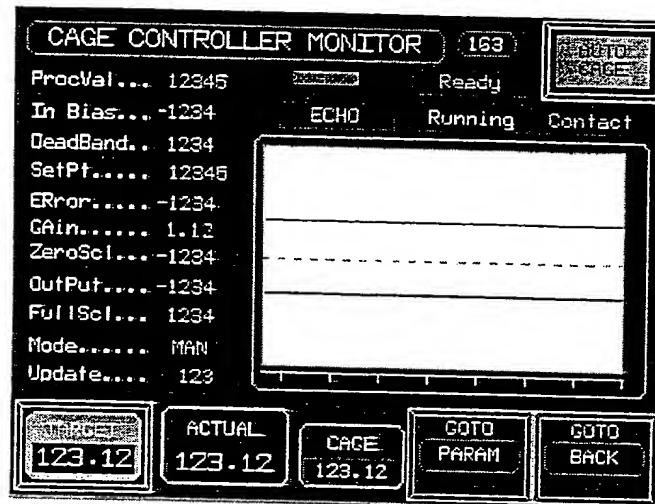


FIGURE 45

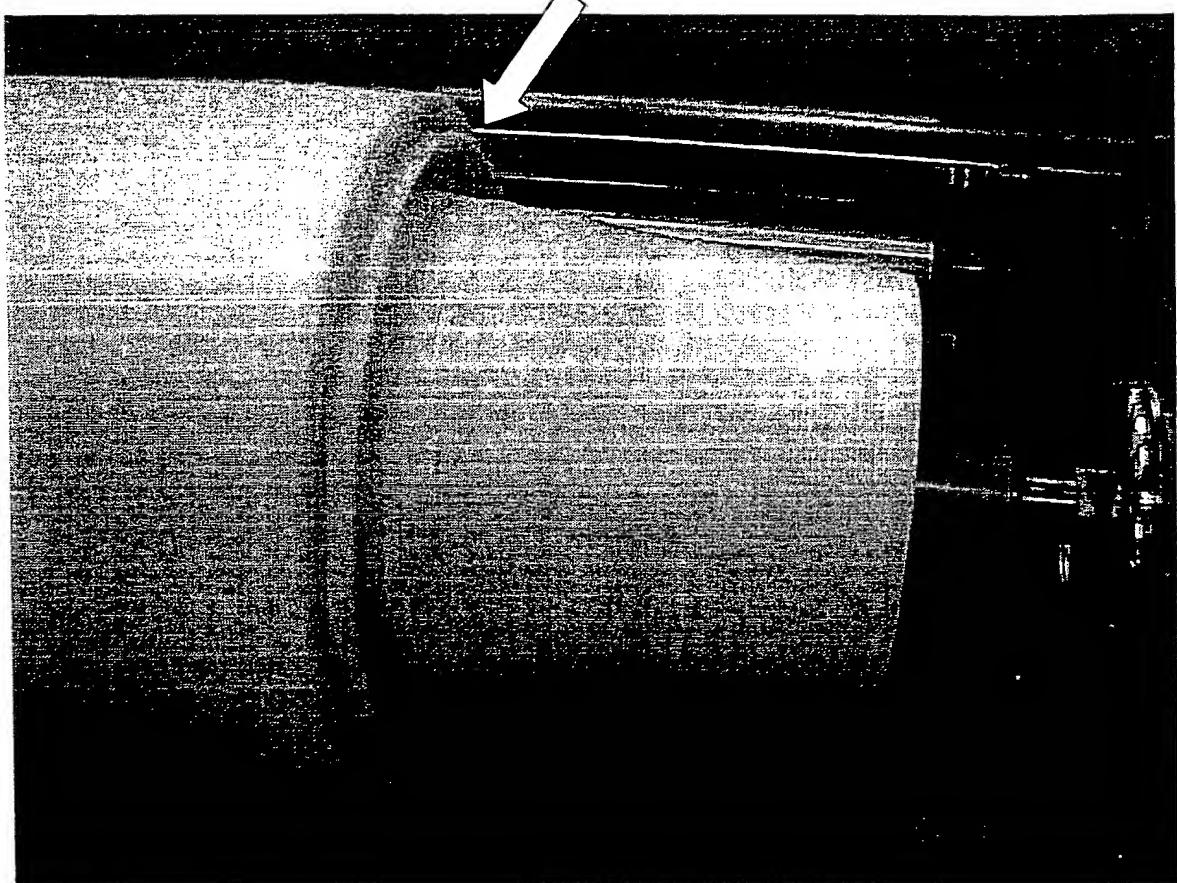


FIGURE 46

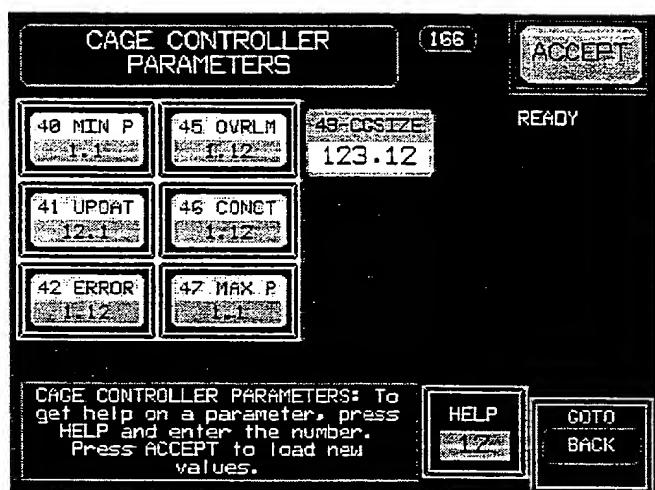


FIGURE 47

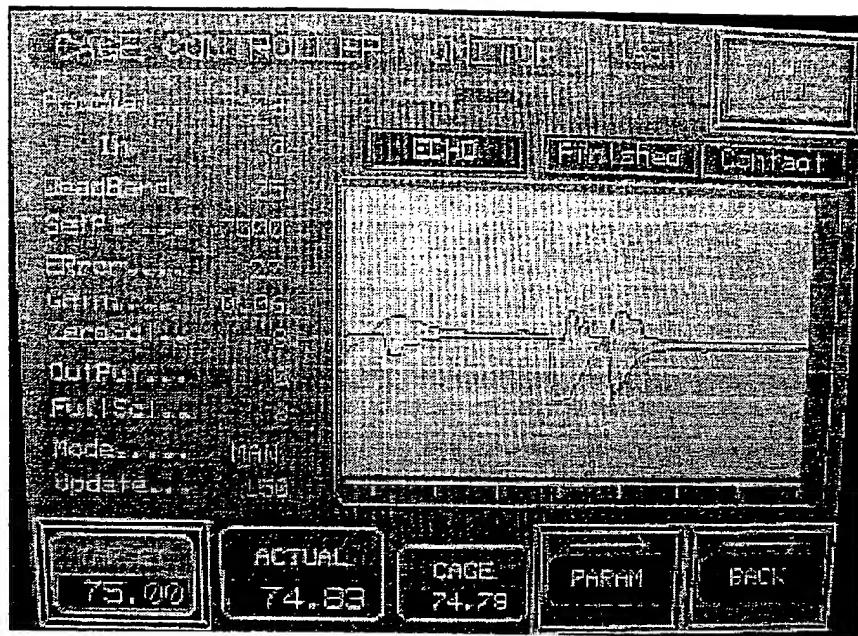


FIGURE 48

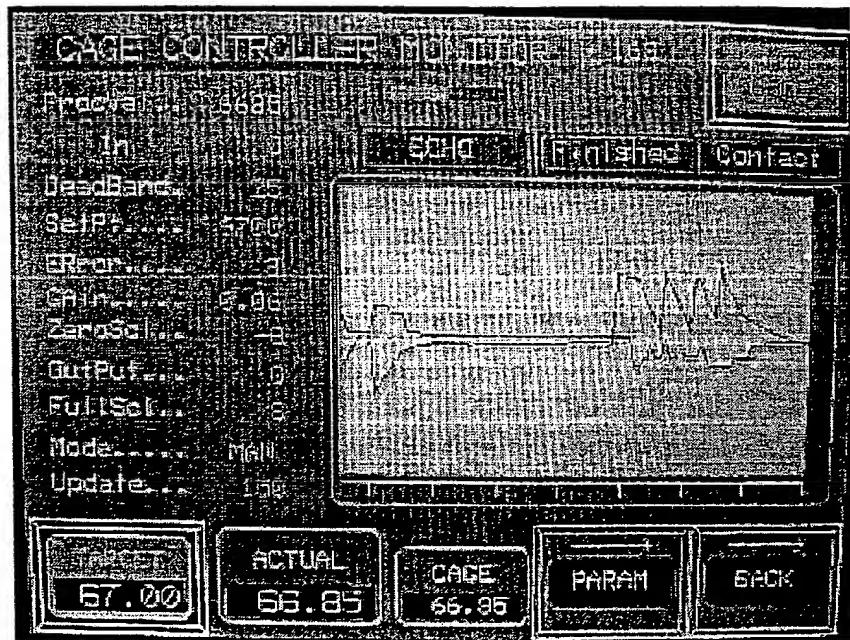


FIGURE 49

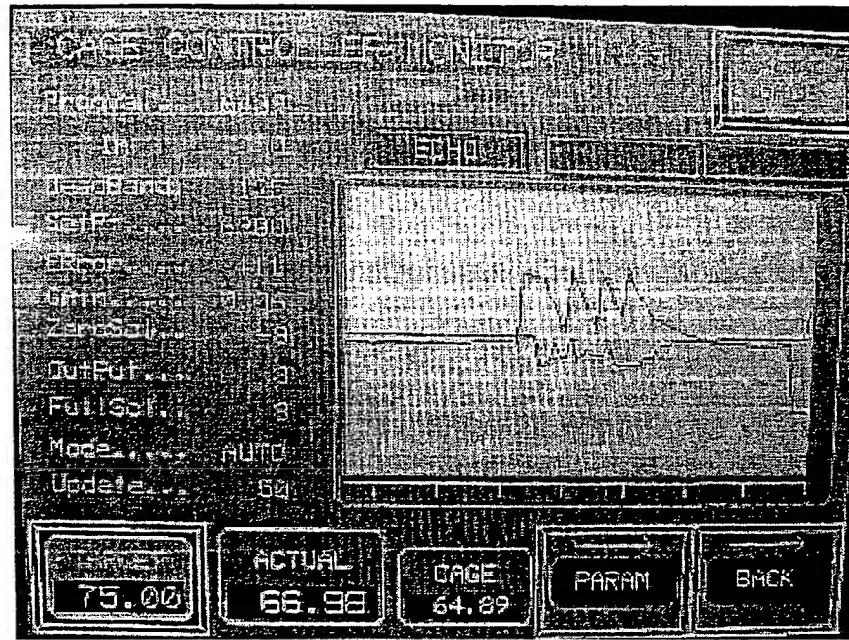


FIGURE 50

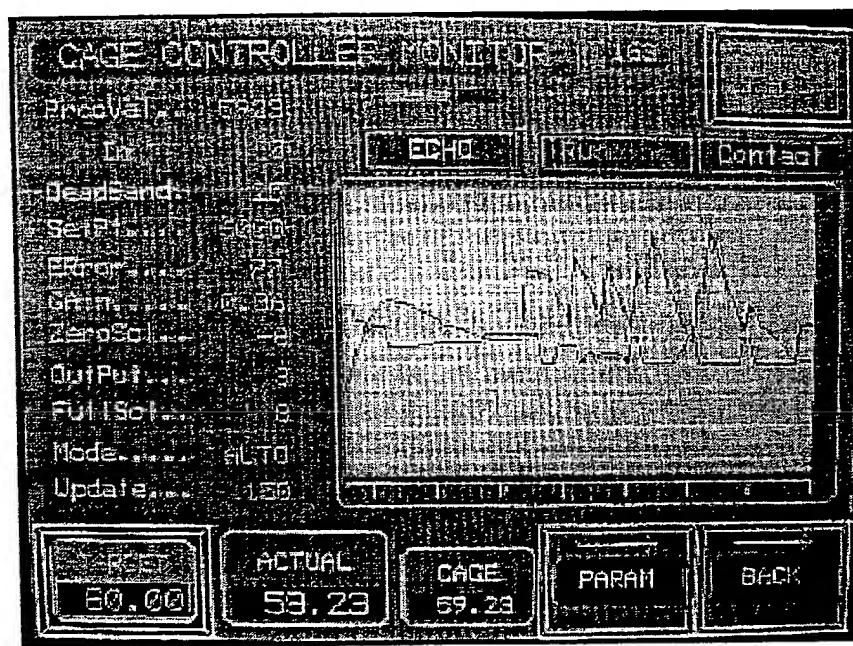


FIGURE 51

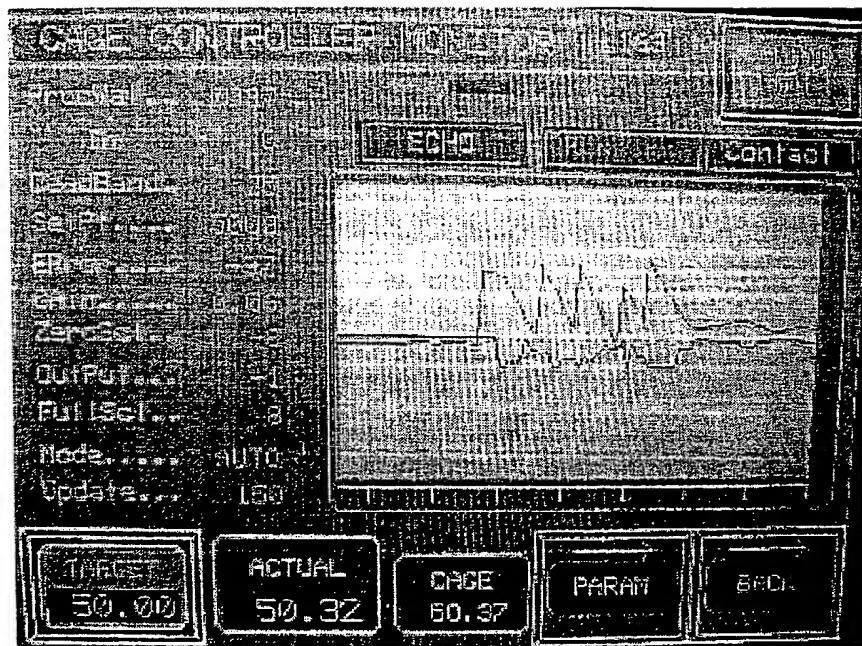


FIGURE 52

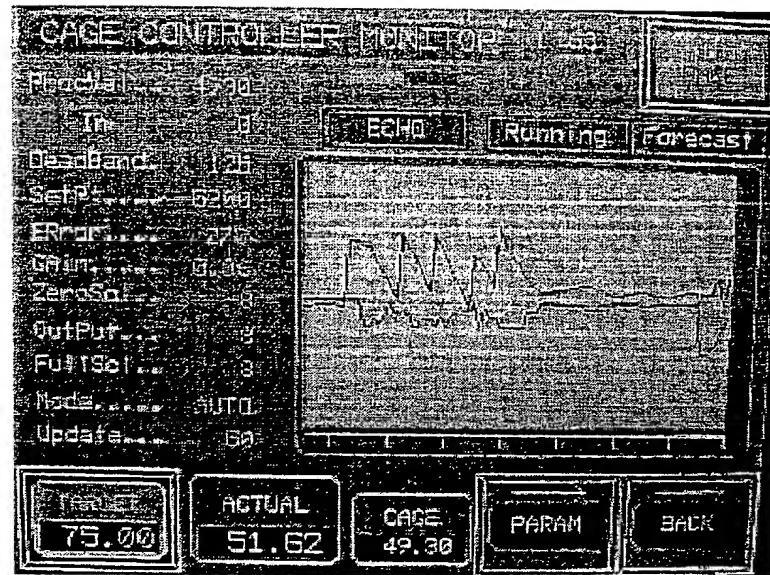


FIGURE 53